# PUBLIC HEALTH REPORTS

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#### COUNTRY SCHOOLS AND RURAL SANITATION.

SIX SAMPLE PUBLIC SCHOOLS IN ONE COUNTY. DOES THIS COUNTY NEED MEDICAL INSPECTION IN ITS SCHOOLS? THE COUNTRY SCHOOL TEACHER.

By CH. WARDELL STILES, Professor of Zoology, Hygienic Laboratory, United States Public Health Service.

The town of A——, county of Z——, has about 1,000 inhabitants. It boasts of an excellent brick school building with 9 teachers. There are two privies back of the school and within short fly-flying distance to several houses. Neither privy is sanitary and both have been in filthy condition the several times I have seen them. The food of the near-by families is supplied, by flies, with fecal material from these two privies. Consider the possible results of the presence of a typhoid carrier among the pupils.

There is a two-room school there which is in good condition and well painted. Two privies are present, but both are so filthy that they would naturally prejudice the children against privies in general. There is a driven well, with pump, in front of the school; the water has hollowed out the ground and forms a muddy puddle in which hogs wallow and children wade—for instance, after visiting the privies; the washer of the pump is so poor that it is often necessary to pour in water in order to start the flow. For this purpose water is dipped from the muddy puddle in which the children have been wading and the hogs wallowing. This pump furnishes the drinking water to about 60 children and 2 teachers.

A small village, C——, is located 2 miles farther on with about 150 inhabitants. (No person in town, including the mayor, could give me an estimate of the number of inhabitants.) Upon inquiring here for a privy, one of my assistants was informed that there was none in town for men except [a miserable] one near the church. The school, however, has two privies. Both of these are within short flyflying distance to two houses which take boarders, including traveling transients.

About 3 to 4 miles farther on is a rural school, D——, with about 30 pupils. There is no privy present, but the boys go down the road in one direction, the girls up the road in another.

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About 2 miles farther along the railroad is the town of E——, with about 600 inhabitants. There is a school with 1 male and 3 female teachers and about 200 enrolled children. When I first visited this school (the week before it opened for its fall term) there was no privy either for the boys or the girls. The boys went down one fork of the road, the girls the other. The school building was open and the passing public was using the upper room—intended for the higher classes—as a public privy. Several women in town informed me that they had repeatedly urged that privies be provided for the 200 boys and girls at this school. Recently the school has been provided with two privies.

About 2 miles farther is another school, F——, with about 30 pupils and 1 young woman teacher. The pupils have an abundance of hookworm disease, but no school privy.

The foregoing observations were made since August 15, 1912. They are published herewith without comment, except for the remark that the county in question is by no means exceptional. The schools represent American rural education—namely, teaching the American rural children how to live.

The country school teacher.—If a county superintendent of education gives an address before a State convention he does not seem to feel that he has done his full duty (judging from a number of meetings that it has been my privilege to attend within the last few years) unless he says something about the inefficiencies of the country school teachers, the few years during which they remain in the work, and the fact that many of them teach simply in order to earn money for their wedding trousseau.

While I would not for a moment presume to be capable of debating with the gentlemen in question, it is difficult to escape the impression that theirs is not the only point of view in the premises. Many years of field work in the rural districts have given me an opportunity to see a great many rural schools and their teachers, and as a practical sanitarian I take the liberty of presenting for consideration a side of the problem which I have not yet heard county superintendents emphasize in their convention addresses.

First of all, the point so often made that these young women teach but a few years and then marry might well be interpreted as meaning that they are of such a high standard that they are in great demand as wives—an interpretation which should be heartly indorsed.

Certain it is that the average young woman has few inducements offered to her to remain a teacher in the many country schools I have seen. As a rule, she leaves a home which is superior to the homes of the parents of her pupils in which she is forced to board if she lives in the community where she teaches. She is paid a miserable salary as reward for exposing herself five days a week to indecent and

insanitary conditions surrounding the school which jeopardize and occasionally end either her health or her life. She is blamed by her patrons for not giving a better education than she succeeds in giving to unhealthy children who on an average are not physically or mentally capable of digesting the education she does give to them. She has little or no sympathy from her school board in regard to the difficulties that she faces. If she suggests improvements in the sanitary surroundings, her suggestions usually fall upon deaf ears. She is superior in education, refinement, culture, and in nearly every other respect, to the majority of parents in the community in which she teaches. She lives a life of self-sacrifice, too often combined with indigestion and pimples, because of the class of food she is forced to eat. If she sends home from school a pupil who has the itch or in whom she suspects some contagious disease, she is blamed for her officiousness; if she contracts the disease herself, she furnishes a substitute at her own expense.1

But she is the greatest civil zing influence to-day in our rural districts and is deserving of much more sympathy and support and of much less criticism than she is receiving.

Without denying that a more pedagogically trained class of teachers might be obtained if they were paid better salaries, I venture to suggest to their critics that they will probably be able to retain their young women a year or two longer if they improve the present indecent and insanitary conditions under which these young women have to work to a point where the girls can teach without endangering their health and lives; and these teachers will certainly have better success in their pedagogic efforts if the sanitary conditions surrounding the schools are improved to a point where the country school will not form—what it is to-day—the great disease-spreading center for rural and semirural communities.

In conclusion, I can not refrain from mentioning what may be admitted to be an extreme and somewhat exceptional case: A young woman from a town contracted to teach in a rather remote country school. She was advised to engage board with the family of the chairman of the local school board and did so before leaving home. Upon arriving at her destination she was shown into the one-room house, containing five beds, and was asked which bed she preferred to occupy.

All honor to our country school-teachers, who are to-day the greatest factors for good in our rural districts.

<sup>&</sup>lt;sup>1</sup> For instance, two of the three young women teaching in the rural school where I am studying the children, the day this short article is written, have just contracted itch from their pupils and have the honor of paying a substitute. There is no medical inspection of the children, and the teacher was blamed for sending home a boy infected with scabies, but sentiment would be distinctly against the teachers if they themselves were known to attend school when they had this infection.

#### HOOKWORM DISEASE IN SOUTHERN CHINA.

By B. W. Brown, Surgeon, United States Public Health Service.

In view of the action of the United States immigration authorities in requiring a rigid examination for hookworm infection of all aliens arriving in the United States, the question of the distribution of this disease in the Orient becomes of interest and importance to the public health.

It seems to be the general opinion among consular physicians and medical missionaries in this part of China that hookworm infection is prevalent in southern China, especially among the agricultural class. When it is taken into account that all crops in China are fertilized almost entirely with human excreta, that farmers work barefooted in this mixture, and that Chinamen drink freely of unfiltered water and eat uncooked vegetables, it is not surprising that they should become infected with intestinal parasites.

Dr. Bell, who has been connected with the Government Civil Hospital at Hongkong for a number of years, reports 7.5 per cent infected out of 253 Chinese examined, and 10.5 per cent infected out of 172 Hindus, and negative results in 159 examinations of Europeans.

The annual report of the colony of Hongkong for 1909 does not mention the disease. Dr. Francis Clark, the medical officer of health for Hongkong, states that in his opinion the practical immunity of the colony is due to the fact that all human excreta, instead of being used in the colony, is collected daily and shipped to Canton.

The South China Medical College at Canton reports that the neighborhood of Canton is infected, principally in the agricultural districts, but that no scientific statistics are available. Dr. Whyte, of the English Presbyterian Mission at Swatow, has done some scientific work on this subject, and he reports that the whole of his district is infected, the degree of infection being 74.5 per cent in the case of farmers and 54 per cent of the general population. These conclusions were based on the examination of 257 cases, too small a number from which to draw definite conclusions but indicating general infection of the country surrounding Swatow.

The most conclusive evidence of the infection of southern China is shown in the work of Drs. Grone, Aubrey, and Lindsay Wood, who, for the past three months, have been conducting the examinations of emigrants leaving Hongkong for the United States. They have examined to December 20, 1912, 556 persons for ancylostomiasis and have found 65 per cent infected.

These emigrants come from Canton and vicinity and the towns and districts near Hongkong. The town and district of Sun Ning, which is not very far from Hongkong, furnished 46 infected cases out of 102 examined. The statement of character of occupations of

those examined is not reliable, as the Chinese emigrant prefers to pass as a merchant or student rather than a laborer; but Dr. Aubrey stated that as a result of careful questioning he believed the large majority of those examined by him and found infected with hookworm were city born and belonged to the student class. It is interesting to note the number of cases found infected with other intestinal parasites. Drs. Grone, Aubrey, and Lindsay Wood report 368 cases of Ascaris lumbricoides (eel worm or stomach worm), 320 cases of Trichocephalus dispar (whip worm), and an occasional infection with Clonorchis sinensis (Chinese liver fluke), Strongyloides stercoralis (Cochin China worm), Fasciolopsis buskii (Busk's fluke), and Oxyuris vermicularis (pinworm).

The steamship companies are having all Chinese steerage passengers bound for the United States examined and are rejecting all found infected. Most of the infected ones are treated by the Hongkong firm above mentioned, and after two examinations, if no eggs are found, they are certified for shipment. The following memorandum of method of examination and treatment was kindly given me by Dr. Aubrey, and I quote in full:

#### METHOD OF EXAMINATION FOR HOOKWORM OVA.

- 1. About 1 ounce of feces is taken and an emulsion made.
- 2. Emulsion is strained through fine mosquito netting into a test tube.
- 3. The test tube is allowed to stand till a sediment about an inch in height is formed at the bottom. (This sediment contains the whole of the egg content, equally distributed throughout it.)
  - 4. The supernatant fluid is poured off and the sediment centrifugalized.
- 5. The supernatant fluid is again poured off and the sediment thoroughly mixed with half a test tube of water.
- 6. This test tube is allowed to sediment. (In this watery medium the eggs fall first to the bottom.)
- 7. As soon as the sediment appears on the bottom of the test tube a long narrow pipetteful is taken up and suspended vertically.
- 8. After a few minutes the eggs contained in the pipette fall to the bottom; a drop from the bottom is then examined.

This method gives a sediment which consists almost entirely of eggs and contains scarcely any fecal débris, and the whole egg content of the original ounce of material can be looked through on three or four slides.

#### TREATMENT.

Patients are starved throughout the treatment, only tea and Chinese soup being allowed. Drugs used:

Oil of eucalyptus, 30 minims.

Chloroform, 40 minims (increased later to 50 minims).

Castor oil, 10 drams.

The above is given in two doses with an hour's interval, or in 2-dram doses every 20 minutes.

Thymol, 15 to 120 grains a day, is given in a single dose or in doses repeated at various intervals.

The smaller doses of thymol were generally given on two consecutive days, the larger ones on one day only. A preliminary purge is given on the preceding day. The oil mixture has generally been tried first and subsequent treatments have alternated between oil and thymol.

The statement here given contains all the strictly scientific data to be obtained on this subject. While the number of cases is small the territory covered is of considerable extent, and the conditions of life and customs prevailing being the same throughout southern China it is highly probable that if the inhabitants of Swatow, Canton, Hongkong, and the vicinity be infected with hookworm the infection is general in southern China.

#### ANTIMENINGITIS VACCINATION.

A note by WADE H. FROST, Passed Assistant Surgeon, United States Public Health Service.

Inoculation with killed cultures of the meningococcus has recently been advocated as a prophylactic for cerebrospinal meningitis, especially by Sophian.<sup>1</sup> He has used for this purpose cultures grown in glucose agar, killed by heating to 50° C. for one hour. He advocates three injections of 500 million, 1,000 million, and 1,000 million, respectively, at intervals of seven days.

As to the efficacy of this vaccination, Sophian and Black (loc. cit.) have shown by agglutination and complement-fixation tests that in man the vaccination causes the development of specific antibodies similar to those developed in the course of an attack of cerebrospinal meningitis, and presumably indicating a certain degree of immunity. They state that several hundred persons were vaccinated in Kansas City during the epidemic there in 1911, none of whom subsequently developed the disease. In the absence of comparative statistics this statement alone does not justify any conclusion as to the prophylactic value of the procedure. They also state that about 100 persons were vaccinated in Dallas, Tex., during an epidemic of meningitis in 1911. Two of these, nurses, each of whom had received two inoculations, developed cerebrospinal meningitis some weeks later. Both recovered.

On the whole their statements furnish no evidence of the prophylactic value of this vaccination, while they do indicate, by the instances cited above, that it does not afford absolute protection against infection.

At present an opinion as to the value of this vaccination can be based only on indirect evidence, viz, the development of antibodies in the blood of vaccinated persons, and by analogy, the efficacy of similar inoculations in the prevention of typhoid fever and bubonic plague.

<sup>1</sup> Sophian, A., and Black, J.: Prophylactic vaccination against meningitis, Journal American Medical Association, 1912, vol. 59, p. 527.

Statistical evidence of the value of any prophylactic against cerebrospinal meningitis is extremely difficult to obtain, because of the epidemiological peculiarities of this disease. It does not show a constant tendency to spread. In one community it may become epidemic, while when introduced into another contiguous community at the same time under circumstances to all appearances equally favorable for the development of an epidemic, the infection may die out after causing only a few cases. Again, even in epidemics, the proportion of the population attacked is relatively small (from 0.1 to 1 per cent); and in this, as in other respects, epidemics in different localities vary widely without discoverable cause. Since it is impossible, in any given community, to foretell the extent to which cerebrospinal meningitis will spread when introduced, it is equally impossible to estimate the efficacy of such preventive measures as may have been carried out. Only very extensive and very careful statistics could prove the prophylactic value of vaccination or any other measure of prevention.

The objections which may be brought forward against antimeningitis vaccination are the danger of using an incompletely sterilized culture; the possibility of inducing a temporary state of increased susceptibility ("negative phase"); the discomfort due to the local and general reaction to inoculation, and the labor and expense involved.

The first-mentioned danger is probably negligible. The danger of inducing a negative phase of immunity is an unknown quantity. It has not been proven to be a real danger in antityphoid and antiplague vaccinations, and need not, for the present, be considered as a valid objection to antimeningitis vaccination. Such danger as may exist would in all probability be reduced by the simultaneous injection of antimeningitis serum.

According to Sophian and Black, a local reaction, more or less painful, is common. There may be no general constitutional reaction, but frequently there are mild symptoms, headache, malaise, and fever, lasting for 24 hours. More severe symptoms are said to have been noted, but to be unusual.

Even granting the efficiency of antimeningitis vaccination as a prophylactic, the labor and expense would be very great in proportion to the results attained. In dealing with an epidemic of smallpox, for example, a disease which, when epidemic, may be expected to attack a very large proportion of those exposed who are unvaccinated, the results attained by wholesale vaccination are relatively great. One may count on preventing by this means from 25 to 50 cases of smallpox in every 100 exposed persons not previously vaccinated.

In vaccination against a disease such as meningitis, which is by nature of rare occurrence, one may count on the prevention at most of only one to ten cases in each thousand persons vaccinated. It is evident that unless the vaccination is done on a very extensive scale it offers but little chance of materially reducing the prevalence of the disease. Notwithstanding its possible dangers, and the lack of proof that it is efficient, antimeningitis vaccination deserves full consideration as a prophylactic measure, because of the inefficiency of other preventive measures and the terrible consequences of the disease.

It would seem wise at present to approve the vaccination of all who may desire it, in communities where the disease is epidemic, or where an epidemic seems likely to occur, especially of physicians and nurses who are likely to come into intimate contact with cases. The question will often arise whether persons already intimately exposed to cerebrospinal meningitis should be vaccinated and whether there is more chance of protection or of inducing a phase of increased susceptibility. There is ample ground for an honest difference of opinion on the subject; but the burden of proof is apparently on those who assert that there is danger from the "negative phase."

It does not appear advisable at present to attempt to make antimeningitis vaccination compulsory, nor to divert to wholesale vaccination large sums of money, which might otherwise be applied, perhaps with more certainty of results, to the early diagnosis, serum treatment, and hospital care of developed cases.

Wherever antimeningitis vaccination is employed it should be done as an experiment. Careful records should be obtained of each person vaccinated and of the incidence of meningitis among the vaccinated and the unvaccinated population of each community.

#### DERATIZATION OF RAT-PROOF BUILDINGS.

A note by W. C. RUCKER, Assistant Surgeon General, United States Public Health Service.

It not infrequently happens that in rat-proofing buildings rodents are imprisoned. Sometimes buildings which are rat proof in the ordinary sense of the term may become rat infested by the introduction of rodents in freight. In both situations the rodents are protected from their natural enemies, and if the food is sufficient their numbers may increase greatly. In granaries, storehouses, and abattoirs it is frequently very difficult to eradicate them by the ordinary means. The animals soon become trap shy, and while a considerable number may be captured in barrel traps it frequently seems impossible to effect a complete deratization in such a situation.

The ordinary poisons such as arsenic, phosphorus, barytes, and the like, may be contraindicated on account of the danger of impregnating foodstuffs with them. In such a situation, particularly in abattoirs, Danyz virus should not be used, because of its pathogenic action on man. What is required is some agent which will kill the rat that takes it and at the same time will be without danger of poisoning the foodstuff. For this purpose a poison made according to the following formula has been found efficacious: Plaster of Paris, 6 parts; pulverized sugar, 1 part; flour, 2 parts.

This should be exposed in a dry place in open dishes. It is wise to place the dishes in the rat's runway. In order to make the bait more attractive the edge of the dish may be rubbed with a piece of fish or smeared with oil in which sardines have been packed. The plaster of Paris forms a cast in the alimentary canal of the rat, and

hence produces death.

# PREVALENCE OF DISEASE.

#### IN CERTAIN STATES AND CITIES.

#### SMALLPOX.

#### Arkansas-At Ashdown.

The secretary of the Arkansas State Board of Health reported by telegraph from Little Rock February 3, 1913, that three cases of smallpox in one family had been notified in Ashdown, Little River County.

#### California report for December, 1912.

Places.	Cases.	Deaths.	Places.	Cases.	Deaths.
California (Dec. 1-31): Counties— Alameda. Amador. Butte. Kern. Los Angeles. Marin. Riverside. Sacramento. San Bernardino.	5 18 1 1 3 3 1 -	1	California (Dec. 1-31)—Contd. Counties—Continued. San Diego. San Francisco. Santa Clara. Shasta. Siskiyou. Tulare. Total.	2 6 1 37 1 1	1

#### California-In San Francisco and Vicinity.

Surg. Long, of the Public Health Service, reported by telegraph from San Francisco February 4, 1913, that 74 cases of smallpox with 1 death had been notified in San Francisco since July 1, 1912, and that 6 cases were still in hospital on the date of the report; that 25 cases had been notified in Oakland since December 1, 1912, with 7 cases still on hand; that 1 case was present in Alameda; that 9 cases with 5 deaths had been reported in Berkeley since December 17, with 4 cases still under treatment.

#### California-In Imperial County.

Acting Asst. Surg. Reichter, of the Public Health Service, reported by telegraph from Calexico, Cal., February 4, 1913, that 18 cases of smallpox with 4 deaths had been notified in Imperial County during the month of January, and that no new cases were reported during the week ended February 1, 1913.

#### Florida-At Pensacola.

Acting Asst. Surg. Kennedy of the Public Health Service reported by telegraph from Pensacola, Fla., February 1, 1913, that 160 cases of smallpox had been notified at Pensacola since December 28, 1912, only 7 of the cases reported having occurred among the white population; that the health authorities had performed many vaccinations; and that 20 new cases had been reported during the week ended January 25.

### Iowa-Fort Dodge and Des Moines.

The secretary of the State board of health of Iowa reported January 29, 1913: The following epidemics of smallpox have been reported to this office to date: Fort Dodge, Webster County, 29 cases; Des Moines, Polk County, 69 cases. Thirty-one of the cases in Des Moines were reported to you January 23, and since that date 38 additional cases have been quarantined.

#### Oklahoma-Virulent form.

Information was received through the United States Commissioner of Indian Affairs January 31, that there were 31 cases of virulent smallpox in McCurtain County, Okla.; that additional cases were occurring daily; and that 200 exposed persons were under quarantine; and that 75 cases, with 16 deaths, had occurred in Choctaw County.

The Department of the Interior has begun the general vaccination of all Indians in the vicinity.

The State Commissioner of Health of Oklahoma reported by telegraph from Oklahoma City February 1, 1913, that 32 cases of smallpox had been notified in McCurtain County and 68 in Choctaw County. Of the latter number 41 cases were reported in the town of Hugo. All reported cases were under quarantine.

#### Pennsylvania-Allegheny Home, Woodville-Virulent form.

Surg. Stoner reports an outbreak of virulent smallpox at the Allegheny Home, Woodville, with a total to February 4 of 10 cases and 3 deaths. The first case occurred January 23, the last February 4, 1913. The first 3 cases ended fatally.

#### Texas-At Galveston.

Surg. Guiteras of the Public Health Service reported by telegraph from Galveston February 1, 1913, that 2 new cases of smallpox, with 1 death, had been notified at Galveston, making a total of 7 cases to the date of his report. One case had been discharged and 5 cases remained under treatment.

#### City Reports for Week Ended Jan. 18, 1913.

		Deaths.	Places.	Cases.	Deaths.
Baltimore, Md Bayonne, N. J Lambridge, Ohio Lhattanooga, Tenn Lhicago, Ili Danville, Ili Detroit, Mich Zvansville, Ind Lonoxville, Tenn La Crosse, Wis Los Angeles, Cal. Lanchester, N. H.	3 5 1 22 3 5 40 2 4 7		Oakland, Cal. Oklahoma, Okla. Omaha, Nebr Philadelphia, Pa. Portsmouth, Va. Providence, R. I. Sacramento, Cal. Spokane, Wash. Toledo, Ohio. Washington, D. C.	2 1 3 3 1 4 3 1 10 9	

#### CEREBROSPINAL MENINGITIS.

#### Illinois.

Surg. Gassaway of the Public Health Service reported by telegraph from Cairo, Ill., February 2, 1913, that there had been a total of 19 cases of cerebrospinal meningitis reported at Gale, Alexander County, since the beginning of the outbreak December 31, 1912. Fourteen cases had died, 3 had recovered and 2 were convalescent.

#### Kentucky.

The secretary of the State Board of Health of Kentucky reported by telegraph January 31, 1913, that cerebrospinal meningitis had been reported present in Mason and Lewis Counties.

#### Cases and Deaths Reported by Cities for Week Ended Jan. 18, 1913.

Places.	Cases.	Deaths.	Places.	Cases.	Deaths.
Baltimore, Md Boston, Mass Cincinnati, Ohio Dayton, Ohio Haverhill, Mass Kansas City, Kans La Crosse, Wis Los Angeles, Cal Nashville, Tenn	1 1 2	1		1 3 1 6 1	1 1 1 6

#### POLIOMYELITIS (INFANTILE PARALYSIS).

#### Cases and Deaths Reported by Cities for Week Ended January 18, 1913.

During the week ended January 18, 1913, poliomyelitis was reported by cities as follows: New York, N. Y., 4 cases, with 1 death; Los Angeles, Cal., 5 cases, with 4 deaths; Worcester, Mass., 1 death.

#### ANTHRAX.

#### Wilmington, Del.—In Man.

J. Austin Ellison, secretary of the Board of Health of Wilmington, Del., reported January 24, 1913, that during the preceding week there had been 4 cases of anthrax in man with 1 death at Wilmington, and that all the patients had been employed in a "morocco factory," where they handled imported hides.

ERYSIPELAS.

Cases and Deaths Reported by Cities for Week Ended Jan. 18, 1913.

Places.	Cases.	Deaths.	Places.	Cases.	Deaths.		
Binghamton, N. Y	4	i	New York, N. Y Norristown, Pa		11		
Buffalo, N. Y	6 7	2 2	Oakland, CalPhiladelphia, PaPittsburgh, Pa	13 16			
Cleveland, Ohio	2		Reading, PaRichmond, VaRutland, Vt	·····i			
Malden, Máss Milwaukee, Wis New Castle, Pa	3	1	St. Louis, Mo South Bethlehem, Pa York, Pa	1			

#### PELLAGRA.

#### Georgia.

During the week ended January 18, 1913, one case of pellagra was reported at Columbus, Ga.

PLAGUE.

Rats Collected and Examined for Plague.

Places.	Week ended—	Found dead.	Total collected.	Exam- ined.	Found infected.
California: Cities— Berkeley		7 36	194 702 1,694	140 609 1,367	,
City— Seattle	do		970	921	

#### California-Squirrels Collected and Examined for Plague Infection.

During the week ended January 18, 1913, there were examined for plague infection 18 ground squirrels from San Joaquin County. No plague-infected squirrel was found.

PNEUMONIA.

Cases and Deaths Reported by Cities for Week Ended Jan. 18, 1913.

Places.	Cases.	Deaths.	Places.	Cases.	Death
litoona, Pa		2	New Bedford, Mass		•
urora, Ill		3	New Castle Pa	1	1
altimore, Md			New Castle, Pa Newburyport, Mass	1	
Singhamton, N. Y		2	New Orleans, La		
			Normant Ver		
Boston, Mass		31	Newport, Ky Newton, Mass	2	
Braddock, Pa Bridgeport, Coun	. 2		Newton, Mass		1
riageport, Conn		6	New York, N. Y		1
rookline, Mass		1	Niagara Falls, N. Y		
Suffalo, N. Y			Norristown, Pa	1	
ambridge, Mass			North Adams, Mass		
ambridge, Ohio			Oakland, Cal		
helsea, Mass			Oklahoma, Okla		
hicago, Ill		161	Omaha, Nebr		
hicopee, Mass			Passaic, N. J	J	
incinnati, Ohio	1	20	Pawtucket, R. I	l	
leveland, Ohio	41	20	Peoria, Ill		
offeyville, Kans olumbus, Ind	1	l	Philadelphia, Pa		
olumbus, Ind		1	Pittsburgh, Pa	30	
oncord, N. H		l i	Plainfield, N. J		
			Providence, R. I		
ayton Ohio		4	Reading Pa	2	
umberiand, Md sayton, Ohio unkirk, N. Y		2	Reading, Pa	"	
lizabeth, N. J.	-	5	Rockford, Ill.		
lmira, N. Y			Sacramento, Cal		
vansville, Ind		4	Saginaw, Mich	3	
verett, Mass	• • • • • • • • • • • • • • • • • • • •	1	St. Joseph, Mo	4	
all River, Mass		8	St. Joseph, Mo	1 7	
all River, Mass		s l	San Diego, Cal	10	
alesburg, Ill		9	San Francisco, Cal		• • • • • •
rand Rapids, Micharrisburg, Pa	. 4		Saratoga Springs, N. Y	5	
arrisburg, Pa	•••••	6	Schenectady, N. Y	14	
artford, Conn		4	South Bend, Ind		
averhill, Mass		1 !	South Bethlehem, Pa		. <b></b>
rsey City, N. J		11	South Omaha, Nebr		
alamazoo, Mich	2		Springfield, Ill	4	
alamazoo, Michnoxville, Tenn		3	Springfield, Mass		
Crosse. Wis		2 1	Spokane, Wash	1	
Fayette, Ind		1	Steelton, Pa	1	
Fayette, Ind Incaster, Pa Exington, Ky	4		Steelton, Pa Superior, Wis		
xington, Ky		5	I GILLOUI, BLOOD		
gansport, Ind		1	Toledo, Óhio		
well, Mass		10	Waltham, Mass		
nchburg, Va		2	Washington, D. C		
nn, Mass		1	Wilkes-Barre, Pa		
alden. Mass		2	Wilmington, N. C		
anchester, N. H	5	5	Woburn, Mass		
edford, Mass		2	York, Pa.	1	. <b>.</b>
edford, Masselrose, Mass		ī	York, PaZanesville, Ohio	1	
oline, Ill		î l			

#### SCARLET FEVER, MEASLES, DIPHTHERIA, AND TUBERCULOSIS.

#### Pittsburgh-Measles.

Surg. Stoner, of the Public Health Service, reported by telegraph from Pittsburgh, February 1, 1913, that during the week ended January 25, 1913, there had been reported in Pittsburgh 430 cases of measles, making a total of 3,655 cases since the beginning of the outbreak, November 1, 1912.

#### Richmond, Va.-Measles Epidemic.

Dr. E. C. Levy, chief health officer of Richmond, Va., reported February 5 that the city of Richmond is in the midst of measles epidemic; that through the knowledge gained by a study of the prevalence of the disease in times past the health department was again able to warn the physicians and citizens of the impending outbreak at a time when there were only a half dozen known cases in the

city. The epidemic began the end of November last. In January, 1,616 cases were reported, and cases are now being notified at the rate of 100 a day. So far there have been only 7 deaths.

Cases and Deaths Reported by Cities for Week Ended Jan. 18, 1913.

	Popula- tion,	Total deaths	the	i <b>p</b> h- eri <b>a.</b>	Me	asles.	Sic. fe	arlet ver.	T eu	uber- ilosis.
Cities.	United States census 1910.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Over 500,000 inhabitants: Baltimore, Md. Boston, Mass. Chicago, Ill. Cleveland, Ohio. New York, N. Y Philadelphia, Pa. Pittsburgh, Pa St. Louis, Mo From 300,000 to 500,000 inhabitants:	558, 485 670, 585 2, 185, 283 560, 663 4, 766, 883 1, 549, 008 533, 905 687, 029	215 277 792 169 1,546 507 184 262	27 31 262 44 397 62 35 84	5 2 46 4 25 10 3 6	42 127 492 85 463 348 355 288	1 1 12 5 8 4 2	39 46 435 25 301 122 31 29	5 37 2 12 4	39 46 217 28 483 90 32 44	29 27 68 9 171 47 15 29
Buffalo, N. Y. Cincinnati, Ohio. Detroit, Mich. Los Angeles, Cal. Milwaukee, Wis. Newark, N. J. New Orleass, La. San Francisco, Cal. Washington, D. C. From 200,000 to 300,000 inhabit-	423, 715 364, 463 465, 766 319, 198 373, 857 347, 469 339, 075 416, 912 331, 069	158 157 183 156 116 92 127 179 110	8 39 5 20 36 43 7	1 8 2 1	177 422 4 10 20 29 1 169	11  1 	18 23 35 10 28 28 11 6	2	30 22 58 16 40 21 21 22	15 16 18 10 20 21 17
Jersey City, N. J Providence, R. I From 100,000 to 200,000 inhabit-	267, 779 224, 326	86 74	25	4 2	3		10	1		7 9
ants: Bridgeport, Conn Cambridge, Mass Cohmbus, Ohlo Dayton, Ohlo Fall River, Mass. Grand Rapids, Mich Lowell, Mass Nashville, Tenn Oakland, Cal Omaha, Nebr Richmond, Va Spokane, Wash Toledo, Ohlo Worcester, Mass From 50,000 to 100,000 inhabitants:	102, 054 104, 839 181, 548 116, 577 119, 295 112, 571 106, 294 110, 344 110, 344 124, 096 127, 628 104, 402 168, 497 145, 986	37 26 69 37 35 33 39 33 46 48 67	32 12 8 4 3 5 1 3 9 4	1 1 3 3	17 8 1 1 3 2 428 2 40 3		4 3 13 7 3 14 6 6 1 4 13	3 11	1 10 12 10 5 2 2 2 2 2 1 6 6	35644 1122235164
ants: Altoona, Pa. Bayonne, N. J. Brockton, Mass. Camden, N. J. Elizabeth, N. J. Elizabeth, N. J. Evansville, Ind. Harrisburg, Pa. Hartford, Conn. Hoboken, N. J. Johnstown, Pa. Kansas City, Kans. Lynn, Mass. Manchester, N. H. New Bedford, Mass. Oklahoma City, Okla. Passaic, N. J. Pawtucket, R. I. Peoria, Ill. Reading, Pa. Saginaw, Mich. St. Joseph, Mo. Schenectady, N. Y. South Bend, Ind. Springfield, Ill. Springfield, Ill. Springfield, Mass. Trenton, N. J. Wilkes-Barre, Pa.	52, 127 55, 545 56, 878 94, 538 73, 409 69, 647 64, 186 98, 915 70, 924 55, 482 82, 331 89, 336 70, 063 96, 652 64, 205 54, 773 51, 622 66, 950 96, 071 50, 510 77, 403 72, 826 53, 684 51, 678	14 12 17 30 41 21 18 28 40 24 25 34 22 27 31 18 18	5 4 4 6 10 3 3 15 5 11 5 9 1 2 2 6	4	3 3 10 9 2 14 3 37 5 5 5 2 14 1 8 45 22 1 2	i		1 3	1 3 7 1 2 5 3 3 5	1 1 2 2 1 1 1 1 2 1 2 1 4
Springfield, Mass	88, 926 96, 815 67, 105	29 44 20	2 4 3		6 10 3	2	3 5		1 3 9	1 3

# Cases and Deaths Reported by Cities for Week Ended Jan. 18, 1913—Contd.

	Popula- tion,	Total	th	iph- eria.	Ме	asles.		arlet ver.	Tuber- culosis.		
Cities.	United States census 1910.	from all causes	ģ	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
From 25,000 to 50,000 inhabitants:											
Atlantic City, N. J	46, 150	17	1		. 2		. 2		.		
Aurora, Ill	29,507	9	1		• • • • • • • • • • • • • • • • • • • •		4		2		
Brookline, Mass	48,443 27,792	20	2		. i		2	1	í		
Chattanooga, Tenn	44.604						1		2		
Chelsea, Mass	32 452	19	5		. 3		2	ļ <u>.</u> .		1	
Chicopee, Mass	25, 401	8			: ····i		····i	1 1	1	1 2	
East Oranga, N. J.	27,871 34,371	°	. i		1		5	ļ <u>.</u>	1		
East Orange, N. J. Elmira, N. Y.	37,176	10	5		. 9		3		1	1	
Evereu, mass	33,484	7	2		. 1		;-		1		
Fitchburg, Mass	37,826	12 9			57 26		1		2		
Kalamazoo, Mich Knoxville, Tenn La Crosse, Wis Lancaster, Pa Lexington, Ky Lynchburg, Va Majdan Masa	44,115 39,437	14	1	i			l î		3	3	
Knoxville, Tenn	39, 437 36, 346	13	1		. 7					4	
La Crosse, Wis	30, 417 47, 227	16			. ::-				;-	2	
Lancaster, Pa	47,227	34	5		11		3		1 4		
Lynchburg, Va	35,099 29,494	ii	1		15		i			3 1	
Malden, Mass	44, 404	10	2	1	10			1	1	2	
Newcastle, Pa	36, 280	<u>-</u> -	5		19					· • • • • •	
Maiden, Mass. Maiden, Mass. Newcastle, Pa. Newport, Ky. Newton, Mass. Niagara Falls, N. Y. Norristown, Pa	30,309 39,806	7 15			1		7			i	
Niagara Falls, N. Y	30, 445	14	1	2	61	1				1	
Norristown, Pa Orange, N. J	41,010	9	1	1	1		<u>-</u> -			1	
Orange, N. J	29,630	.9	·····			• • • • • •	5 4	····i	1	····i	
Pittsfield, Mass Portsmouth, Va	32, 121 33, 100	16 9	3		2		3			2	
Racine, Wis	38,002	22	ļ <u>-</u> .		l		2				
Roanoke, Va	34,874	.9	1		2				3	1	
Rockford, III	45,401	11 27	4		3		• • • • • • •			6	
Racine, Wis. Roanoke, Va. Rockford, Ill. Sacramento, Cal. Salem, Mass.	44,696 43,697	8					4				
	39,310	6	1						2	2	
South Omaha, Nebr Superior, Wis	26, 259	11	1			]				•••••	
	40,384 34,250	10 15	1	<b>-</b>			2		····i	1 2	
Waltham, Mass	27,834	5	4	i	3	:::::	4		i		
West Hoboken, N. J	35, 403	<b></b>	5		5		1		1		
Wheeling, W. Va	41,641	11 10	7	<b>-</b>	31		1			• • • • • •	
York, Pa	25,748 44,750	10		•••••	27		''i'				
Zanesville, Ohio	28,026	6	4		i		4				
Less than 25,000 inhabitants:	, l				ا ـ ا	- 1	l				
Beaver Falls, Pa	17,079	3		•••••	5					·····i	
Biddeford, MeBraddock, Pa	17,759				15		i				
Cunton, Mass	13,075	2	2		66						
Coffeyville, Kans	12,687	·····2	1	• • • • • •			•••••		1	• • • • • •	
Columbus, GaColumbus, Ind	20,554	4	i							····i	
Concord, N. H. Cumberland, Md.	21,479	14			5		1			ĩ	
Cumberland, Md	21,839	17	···· <sub>2</sub> ·			•••••			3	•••••	
Dunkiik, N. I	22,089	6 13	2 1	•••••	1			•••••	1	1 2	
Galesburg, Ill	14, 489	3	ĩ							<del>-</del>	
Kearny, N. J.	18,659	.6			2	.			1 .		
La Fayette, Ind	20,081	13 5	1		2		i i	• • • • •		····i	
Logansport, Ind	14,759	4			î l						
Masillon, Ohio	23.830	4								1	
Medford, Mass	23, 150	7	1		8		1 .			1	
Moline, Ill	15,715 24,190	9 8			1 .		2		2	• • • • •	
Montclair, N. J.	21,100	3			i		4		i  .		
Morristown, N. J	12,507	6			.		1  .		1	1 .	
Nanticoke, Pa	18,857	6		•••••					2	••••	
Newburyport, Mass North Adams, Mass	19, 240 22, 019	10	1	•••••	1.			· · · · · i		····i	
Northampton Mass	19,931	4 1	î	i	2 .		4 .		2 .	····-	
Palmer, Mass		1			.		-		-		
Plainfield, N. J	23,550 13,546	6 1	•••••	•••••	17 .			•••••	1  .	• • • • •	
Saratoga Springs, N. Y.	10,040	4							"il:	••••	
South Bethlehem, Pa		8			3 .		1 .		2	••••	
Steelton, Pa	14,476	8 7 3					1  .		1	2	
Warren, Pa	11,080	9	···i	•••••	27 . 17 .	•••• •	2			••••	
Wilkinsburg, Pa	18, 594	4			<u>:'</u>  :					• • • • •	
	-,	<u> </u>				1 .		1			

#### IN INSULAR POSSESSIONS.

#### HAWAII.

#### Plague-Infected Rats Found.

On December 30, 1912, a plague-infected rat was found at 2 House Camp, Paauhau, Hawaii. The last previous known case of rodent plague in that locality occurred March 2, 1912.

During the week ended January 11, 1913, plague was verified in a rat found dead at the Kukuihaele Landing warehouse.

#### Examination of Rodents for Plague Infection.

During the week ended January 11, 1913, there were examined for plague infection 273 rats. No plague-infected rat was found.

At Hilo rats and mongoose were examined as follows: Week ended January 4, 1913, 515; week ended January 11, 1913, 915. No plague infection was found.

At Honokaa rats and mongoose were examined as follows: Week ended January 4, 1913, 1,154. One plague-infected rat was found; week ended January 11, 1913, 1,536. One plague-infected rat was found.

#### Case of Leprosy on Vessel.

The steamship Siberia arrived January 15 at Honolulu from San Francisco, Cal., with a case of leprosy on board in the person of a Japanese steerage passenger. The patient went to California from Japan about six years ago, and during the greater part of his residence in California lived at Monterey and was engaged in fishing. The disease is of the tubercular form with marked infiltration of the forehead, cheeks, nose, and lobes of ears. The patient was in transit to Japan.

#### PHILIPPINE ISLANDS.

#### Plague in Manila.

Passed Asst. Surg. Heiser, chief quarantine officer and director of health for the Philippine Islands, reports the occurrence of plague in Manila as follows: Week ended November 30, 1912, 3 cases with 3 deaths; week ended December 7, 1912, 2 cases with 1 death; week ended December 14, 1912, 2 cases with 1 death.

#### PORTO RICO.

#### Plague Situation.

# Passed Asst. Surg. Creel reports:

RATS EXAMINED JAN. 11 TO 18, 1913.

Places.	Rats examined.	Rats found infected.
All Porto Rico. San Juan municipality: San Juan Puerta de Tierra. Santurce.	1,959 100 34 144	•••••

The last case of plague in man occurred in San Juan September 12, 1912; the last plague-infected rat was found at Caguas December 19, 1912.

# FOREIGN REPORTS.

#### BRAZIL.

#### Bahia-Yellow Fever.

According to information received February 3, there were reported at Bahia during the 10 days preceding that date 4 cases of yellow fever with 1 death.

#### CUBA.

#### Habana—Transmissible Diseases.

JAN. 10 TO 20, 1913.

Diseases.	New cases.	Deaths.	Remaining under treatment.
Leprosy Majaria	1	2	246
Typhoid fever. Diphtheria.	12 32	1 2	40 24
Scarlet fever	16 12	1	24 11
Paratyphoid	2	• • • • • • • • •	6

#### JAPAN.

#### Cholera Epidemic Terminated.

Surg. Irwin at Yokohama reports January 6: No case of cholera has been reported in Yokohama since December 18 and none in the Empire since December 28, 1912. The epidemic may therefore be considered at an end.

#### MEXICO.

#### San Juan Bautista—Yellow Fever Epidemic Terminated.

According to information dated January 12, the yellow fever epidemic at San Juan Bautista, State of Tabasco, has been declared by the board of health to be extinct. No case of the disease has been reported in the State since November, 1912.

Yellow fever was reported present at San Juan from May 4 to November 3, 1912, with a total of 58 cases and 25 deaths.

February 7, 1913 266

#### RUSSIA.

#### Morbidity Reports for the Year 1909.

In Russia physicians and others practicing medicine are required to keep a list of the cases treated by them, and at the end of the year to forward the list, or a transcript thereof, to the district medical department. These are then forwarded to the provincial or Government authorities by whom the compiled reports are in turn forwarded to the National Government at St. Petersburg, and there compiled for all Russia.

Acting Asst. Surg. De Forest has forwarded a statement of the morbidity returns for the year 1909, as published in the Russian Official Yearbook of 1911. Dr. De Forest states that the tabulation includes the reports of the hospitals and practicing physicians, and both the urban and rural populations; that the system includes all parts of the Empire, but that naturally the difficulties accompanying the practice of medicine in certain of the distant and outlying Provinces are such that the figures for them must necessarily be incomplete.

RUSSIAN MORBIDITY REPORTS FOR THE YEAR 1909.

Epidemic	enteritis.		518	12.386	5,151	6,018	1,501	2,5 2,8 2,8	2,572	4, 797	13,69	4,960	4,740	9,182	2,907	378	1, 152	1,577	4, 900 6, 976	21,028	1,216	000	2.387	4,354	3,847	9,873	6, 50 262	88	8,824	7,147	8,060	3,743 8,007
era.	Asiatic.		, 749		٠	'n																			:					6		
Cholèra	Nostras.		Ç	22	នេះ	<b>8</b> =	8	240	31	223	25.1	57	83	1,016	88	115	49	991	A91	203		× × ×	7.2	· 88		<b>5</b>	133	34	16	1.026	173	<b>88</b>
Dysantomy			c	4,65	•	-14		4, ∈			, <del>Z</del>	, ro	, (co.)		٠٠.		œ`	<u>-</u> `-	ř C	· 8	٠٠٠٠	<u>-</u>	- 2	7	41	7	51.4	:	~;		14	5,749
Abdominal	(typhoid fever).		1,338	16.927	3,979	2,718 4,005	1,967	14,778	3,978	3,384	2,00	2,098	3,917	88	2, c 8, 6	496	15, 176	1,962	13,624	7,280	3,468	3,883	5.058	16,001	2,900	7,240	16,003	3,803	5,861	8,475	11, 423	4,358 6,179
Typhus					1,492		805	7,793	5,575	1,381	7,400	1,183	1,922	8,857	288	8	5,569	1,322	2,0,0	4,855	2,482	1,351	4	11,710	2, 793	3,25	3,587	311	3,211		6,413	5.160
Tuffuengo			13,574	34, 783	13,542	112,946	35, 700	34,748	75,073	14, 242	71,586	33,926	35, 803	58,976	71,860	6,594	50,260	13, 787	73,077	340,022	34,536	41,451	12,502	61, 919	27,348	145,623	111 381	25,128	45,579	163,486	61,780	52,028
Whooping	congh.		2, 228	9.028	88	10,088	6,977	88.98	17, 233	2,636	0,271	10, 134	5,914	10,495	9,920	838	9,020	4,194	6,300	22, 492	11,555	2,100		10,590	10,930	17,573	15,332	7,363	8,681	19,330	21,240	11,984 6,786
Measles			1,658	8,404	1,426	4,032	2,683	12,367	6,097	3,968	10,013	4,330	5,657	11,030	3,955	1,310	3,869	4,821	6,358	24,529	4, 189	2,832	2,701	6,238	3,787	10,729	13,341	2,588	8,390	20,63	5,946	~ 8.4 8.5 8.5
Dinhtharia			208	32,571	883	2,334	489	8,713	416	2,309	25,078	2,568	1,881	26,627	1,900	881	4,671	2,026	2,791	15, 708	1, 750	45.4	5. 759	3, 794	3,888	808 908	12,092	556	4,261	26, 1G	15,404	4,4 9,8 9,8 9,8 9,8 9,8
Scorlatine			2,070	7,666	1,896	6,010	4,141	10,714	6,913	2,971	, 1, 88. See . I	7, 933	3, 185	19,358	5,038	1,916	9,272	3,126	2, 330 8, 330	25,730	3,806	4,081	25.55	7,714	6, 637	863 563 563 563 563 563 563 563 563 563 5	8, 172	2,217	7,355	11,913	16,391	4,549
Variola			1,678	2.757	1,010	1.914	3,071	1,460	3,176	1,345	3,400	1, 154	1,516	3,847	1.647	86	1,456	1,486	2,653	8,116	1,268	3,217	1,38	3,29	785	2,907	3 838	1,450	3,865	3,59		2,64
Governments and	Provinces.	EUROPEAN RUSSIA.	Archangel.	Bessarabia	Vilna	Vladimir	Vologda.	Volubsk	Vjatsk	Grodno	Ekaterinoslav	Kasan	Kaluga	KJ0II	Kostroma	Kurland	Kursk	Livland	Mohilaw	Moscow.	Nihje Gorodsk	Novogorodsk	Orenburg	Orloff	Pensa	Podolet	Poltava	Pskov	RJasan	St. Petersburg.	Saratov	Simbirsk. Smolensk
		1		• 100		_		x o			3 65				<u>~</u>	61	8	<b>5</b> 8	38	នី	188	848	8	8	8	500	38	34	*8	36	8	88

RUSSIAN MOBIDITY REPORTS FOR THE YEAR 1909-Continued.

Epidemic	enteritis.		9,93,00,00,00,00,00,00,00,00,00,00,00,00,00	1,859 12,560 17,751 7,898 113	267, 190	2,629	877 618	1,883 4,987	1,388 817 82,	1,211	15,128		2,517 28 670	191	17,980 779 2,761	4,455
era.	Asiatic.		303 10 88.	19 167 172 94 1,056	23,420						9		373		7	
Cholers.	Nostras.	٠	174 143 30 30	237 237 143 143 35	6,908	108	311 19	<b>3</b> 2:	132	141	838		T ::	4	222	-
	Lysemeny.		4,80,62,62,62	21,2616 21,772 7,196 1,393 1,331		895 246	1,056	1,357	240 478 93	1,045	909 '9		5,831 159 678	853	3,182 1,466 1,582	2,136
	(typhoid fever).			2, 84 27, 86 9, 441 2, 286 2, 286					1, 88, 88,		13,028		1,585 159 308	664	3,86 3,002 2,002 2,002 2,002	1,203
Typhus	fever.		11,787 11,787 3,167 3,872	1,024 9,860 2,154 1,134	165,581	1,402	114	<b>2</b> 33	180 180	396	2,715		215 36 397			
T. A. Grande				26, 550 101, 128 87, 142 82, 810 5, 665 53, 201	2,775,954				2,2,7 2,003 193 193 193 193 193 193 193 193 193 19		27,172		12,146 219 1,940	2,177	8,468 5,775	3,351
Whooping	cough.		12, 760 18,060 10, 645	20,20 15,63 10,40 14,40 14,40 14,40	479,359	1,975	327	3,996 986	1,126	1,369	13,358		2,321 288 402	88	3,721 1,075 1,141	386
Meedo	Transfers.		10,345 10,345 6,537	11,565 10,465 1,474 2,474	325,005	3,127	1,530	. 4. 88.4.	1,214 447	2,916	17,393		1,181 10 1,302	25 E	8, 416 9, 864 3, 865	2,162
, did	The second of		3,5,2,2, 64,89, 21,89, 21,81,81,81,81,81,81,81,81,81,81,81,81,81	4,12,15,15,15,15,15,15,15,15,15,15,15,15,15,	403,624	2,361	270	., 55 60 60 60 60 60 60 60 60 60 60 60 60 60	888 1288	1,109	11,317		27. 28.03	38.5	21,061 187 11,213	1,881
an House	Scariatina.		16, 021 15, 164 5, 828 49, 192	19,182 19,182 12,523 1,523 3,577	370,824	4,216	1,475	2,307 4,546	388	2,147	18,735		388	200	6,611 1,648	1,951
Veriole	v 81018.		3,408 1,535 1,946	1, 200 2, 814 1, 512 127 145	 E	4,111	171 150	-î	202		066'6		502 13 1,751		<b>დ</b>	•
Governments and	Provinces.	EUROPEAN RUSSIA-Con.	Tabris. Tambov. Tver Tuls.	Charkov Charkov Chernson Chernigov Estland	<u> </u>	Warsaw Kalisch	Kelitzka. Lomschin	Lublin. Petrokov.	Flotzka. Radom. Snyalki	Sedletz	Total	CAUCABUS	Bakinak Batum Dagestan	Elesawetpol. Karsk	Kuban Kutaisk Stavropol	Tersk
]				<b>3</b> 22332			82		386				233	2.8	828	8

1,928 725 744	33,304	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	21,709 11,111 1,111 1,502 1,573 1,953 1,953 1,963 1,066 6,676
	375	148	1 1 24,008
125	212	92 159 158 34 34 20 20 236	88 8 8 7 7 4 4 7 7 4 8 8 8 8 8 8 8 8 8 8
2,456 570 2,071	23,861	1, 310 6,400 3,9,663 3,9,663 3,53 25 25 25 3,53 3,138 4,450	77,984 1,638 827 827 460 749 351 1,633 274 583 6,839 6,839
88 24 24 24 24 24 24 24 24 24 24 24 24 24	12,851	1,578 6,217 6,696 1,956 1,465 2,700 8,772	23,455 4,224 168 68 878 871 717 428 3,022 270 270 270 270 270 270 270 270 270
324 157 3	6,051	495 495 145 74 2,730 2,730	4,185 1,347 1,62 1,162 4,34 3,4 3,192 2,192 2,192
8,946 3,058 2,626	55,357	14, 1985 113, 284 113, 284 112, 284 12, 486 15, 734 15, 731 15, 731 18, 731 18, 731 18, 731	125, 988 15, 994 1, 906 2, 622 6, 725 3, 615 5, 373 1, 528 1, 528 39, 741
640 372 686	11,389	2,588 2,588 4,234 1,103 1,103 5,396 6	23, 556 2, 615 301 342 342 342 342 511 7, 126 531 7, 126
505 504 346	19,975	813 1,817 7,220 889 1,822 2,334 724	16, 386 11, 216 245 137 1404 1404 1413 201 213 3, 843
220	36,320	283 1,046 384 886 882 532 532 1,233 1,233	5,386 11,716 11,716 29,277 2,277 165 165 5,125 461,722
1,595	17,115	583 1,340 1,178 1,500 216 1,158 1,785 1,785	7,786 679 88 112 200 200 677 677 67 2,297 2,297
343 381 1,051	12,458	28 381 120 1,186 378 8 8 670 1,949 6 70	4,719 1,045 281 60 120 120 145 31,780 617 148 617 148 617 148 148 148 148 148 148 148 148 148 148
Tiffis. Black Sea coast. Erivan.	Total	Amur Enise Zabal Zabal Irkute Kamc Primc Sacha Tobol Tobol Toma	MIDDLE ASIA.  MIDDLE ASIA.  Akmoliu Transkaspian Samarkand Semipalatin Semirechin Sir-Darin Turkestan Transka
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RUSSIAN MORBIDITY REPORTS FOR THE YEAR 1909-Continued.

1 6			92	121	<u>≈</u> ≈	 ::::::::::::::::::::::::::::::::	38	98	38	8	<b>2</b> 2	8	88	38	#8	32	4	<b>88</b> 8	88	3	28	8	200	45
Number	nations.		8,2	147,3	71,7	75,3	166,8	155,2	21.88	112,0	102.9	73,7	180,8	81,2	6	21.8	116,6	13,6	8,5	8:	2,8	127,5	3,5	128,7
Miscellaneous, n'ections N	Mental dis- eases.		431	2,892	1,797	1,730	610	1,694	s, 13	1,059	3,070	1,695	2, 421	1,416	1,027	4,19 1,19 1,19 1,19 1,19 1,19 1,19 1,19	83	7 707	2,207	1,585	2 5 5 5 5 5	1,368	1,04	 38
Miscellar Noninfectious diseases.	Trau- matic af- fections.		31,177	116, 268	22, 787 55, 046	89, 422	102,535	78,448	21, 501	125, 708	86.699	39,412	144,610 22,381	117,205	14, 145	38,534	79, 762	317,644	103,234	80,624	45, 250	66,372	8,00 8,00 8,00 8,00 8,00 8,00 8,00 8,00	115,578
Tra- :			461	13,961	10,828 35,430	10, 591	13,775	15, 915	2,371	5, 413	34,73	1,503	18,900	13,873	6,978	9,278	15,969	27,908	4,832	6,334	588	3,654	19,849	2,887
Scabies.			16,892	37,154	7,855	39,693	80,408	85,460	10,02	29, 291	172,021	36,158	48.263 5.263	83,52	1,694	4.065	53, 996	102,530	29,820	66, 671	2,73	160,045	25,304	46,362
Malaria.			953	75,985	2,596	22, 627	14,149	114, 155	7,318	128,067	145, 197 81, 932	7,245	30,238	13, 729	66	25,215	27,315	16, 712 36, 949	34.017	5,524	30,045	52,593	34,647	28,886
Gonor- rhea.			1,239	9, 112	2,178	3,659	4,077	8, 292	1,939	12,001	26,820	1,749	13,957	3,172	1,878	8,457	3,834	20,887	8,35	2,194	2 579	3,233	, ; , ; , ; , ;	, 4, 4 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
Soft chan-			184	1,733	369	637	1.272	1,474	1,518	4,677	2,045	98	4,545	38	288	3.382	88	15 187	2,498	807	38	758	321	1,382
Sy <b>p</b> hilis.			2,026	9,488	1,923 16,623	12,705	6,168	70, 957	2,325	23,283	13, 90	11,788	22, 151	18,243	1,344	31,847 8.424	5,605	4,607	18,847	13,417	5,7	28,356	62,059	9,182
Tuber- culosis.			976	13,436	3,975 9,757	8,896	18, 101	11,489	6.810	8,486	10,930	5,636	27,995	8,577	2,846	10,438	13,082	11,652	7.411	6, 151	2,600	9,219	6, 103 8, 103	14,180 24,986
Croup- ous pneu-	HOHIS.																							13,38
Scurvy.			۲,															-ï-	<b>.</b>					477
Acute articu- lar rheu-			-ic	4.80	~2	81	12	12	4 c	22	70	-	:23°	°=	~;	35	, =	= 6	7	_		Ξ,	= 7	2,2,2 2,2,3 12,86
Septi- cemia and	руеша															_		_	- 					388
Ery- sipelas		_		ω,		 (4,-	-, 4		-, v.	4,	<u>۔</u> ص_رہ		<u></u>	- (0)		4-	- 21		30		_		- 5	8 4,4,0 10,60
Paro-titis.				ъ,		3,877				6,443	11,190	2,112	6,576	2,226	348	2,730	î ci	 4€0		i — i	-i-	(0)	. 5,82	13,3,5
Governments and Provinces.		EUROPEAN BUSSIA.	Arkangel	Bessarabia	Vilna. Vitehsk	Vladimir	Voltask	Varonesch	Vistsk. Grodno	Don-Kossack district.	Ekstermosiov	Kaluga	Kieff	Kostroma	Kurland	K trsk Livland	Minsk	Mohilev	Nih ie Gorodsk	Novogorodsk	Olonetz	Orloff	Pensa	Podolsk Poltava
		<u> </u>	-				,																	188

45, 666 1175, 459 1175, 450 1175, 450 1175, 450 1175, 450 1175, 450 1175, 460 1175, 460 1175, 460 1175, 460 1175, 460 1175, 460 1175, 460 1175, 460	4,951,919		25, 227 26, 227 27, 256 27, 256 28, 265 28, 265 28, 466 29, 466 29, 466	407,507	27, 27, 28, 28, 28, 28, 28, 28, 28, 28, 28, 28	
2, 1, 2, 2, 3, 1, 1, 2, 3, 3, 1, 1, 2, 3, 3, 1, 1, 2, 4, 1, 2, 4, 1, 3, 3, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	101,664		2,818 136 238 874 864 127 127 138	5,132	235 4 286 286 286 286 286 286 286 286 286 286	
67, 139 67, 918 178, 872 178, 872 98, 782 61, 986 61, 986 92, 350 94, 771 171, 974 171, 987 114, 982 114, 982	4,565,572		42,330 3,650 7,680 7,687 8,518 8,518 2,124 6,716	119,863	55, 434 3, 114 9, 975 18, 684 4, 808 121, 239 119, 906 33, 649 22, 055 22, 055 13, 746	
16, 434 1, 596 18, 179 18, 179 18, 179 18, 179 18, 189 18, 189	731,215		10,986 1,489 1,524 439 1,052 5,592 1,052 1,052 6,592 1,052	23,099	5,547 1,280 1,280 1,280 1,444 7,344 7,344 1,767	
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1, 161 227, 770 3, 136 3, 136 3, 137 90, 339 64, 734 123, 085 9, 331 9, 331 9, 331 125, 580 71, 834 77, 834 77, 834	2,359,759		3,451 1,057 1,057 611 952 2,264 1,267 1,267 960 73	12, 452	108, 117 9, 077 38, 084 55, 596 8, 270 310, 220 71, 816 71, 816 71, 816 71, 816 71, 816 71, 816 71, 816 71, 816 71, 816 71, 816 81, 817 81, 81	
2,032 11,037 17,74 11,376 17,7	313,384		16,885 525 525 480 1,035 6,245 6,245 561 333 551	27,420	9, 218 569 777 1, 448 2,004 1, 854 1, 885 5, 4895 5, 4895 703 703	
1,019 535 21,987 3,048 3,048 3,048 1,070 1,070 6,730 6,730 6,730 1,628 1,628	103,812		4,230 162 186 186 2,116 193 194 152	7,724	6,652 301 301 301 267 37 2,683 499 978 2,222 21 221 21 351 15,602	
15, 430 82, 468 83, 604 86, 848 86, 849 11, 626 11, 626 11, 807 13, 970 11, 281 11, 281	1, 055, 983		13,674 410 601 244 888 6,046 338 448	23,306	6,592 413 2,016 2,016 2,016 6,22,006 2,286 4,810 4,259 4,259 4,259 618 33,039	
5, 365 33, 082 33, 082 33, 082 33, 082 33, 082 114, 082 114, 082 114, 082 114, 082 117, 082 118, 082 1	569,912		13, 392 1, 224 2, 192 6, 593 5, 923 2, 556 1, 786 633 2, 015	35,995	3,047 3,888 660 1,359 1,550 1,679 2,060 4,487 678 678	
4, 454 1,7,105 1,9,110 1,0,105 1,745 1,745 1,745 1,745 1,745 1,745 1,745 1,107 1,107 4,815	367,649		5,220 1,147 2,969 1,676 2,939 5,126 1,796 1,722 1,722 3,040	26,252	1, 821 1, 821 1, 2416 1, 267 1, 500 1, 500 1, 1912 2, 743 2, 743 2, 763 2, 763 2, 763	
96 168 611 2,880 1,194 1147 147 1,215 1,215 1,215 1,215 1,215 1,215 1,495 1,215 1,49	30, 197		186 278 279 192 15	565	225 61 99 105 123 1,523 3,56 318 512 218 512 218 3,714	
5, 406 22, 735 22, 735 22, 735 21, 483 11, 303 16, 735 16, 353 10, 674 6, 620 6, 630 7, 513 7, 513	584, 112		7,515 652 759 1,362 2,363 1,277 1,277 954	16,466	3,084 5,455 5,980 5,980 3,084 6,288 6,288 6,770 1,770 1,770 58,219	
328 328 418 278 278 278 278 555 333 333 450 56 56 56 56 56 57 86 86 86 86 86 86 86 86 86 86 86 86 86	17,095		838 117 118 15 187 643 74 74 138	2,418	28 96 50 72 72 28 28 29 15 16 17 17	
1,724 4,440 6,440 1,440 1,440 1,183 1,183 1,183 1,183 1,183 1,183 1,033	183,604		1,864 253 274 223 223 1,028 1,028 386 386 20 481	5,625	945 114 350 350 3,913 3,913 1,055 1,025 1,025 1,025 1,026 1,	
3, 972 2, 252 2, 251 2, 252 2, 255 2, 255 1, 1, 255 1, 1, 302 1, 1, 302 1, 244 1, 244	219,963		1,516 255 255 101 487 1,469 150 318 96 156	4,657	1,605 122 214 214 710 1,709 1,009 1,345 1,345 1,345 1,345 1,345 1,345 1,345 1,345 1,345 1,345	
Pskor. Rlasan. Banan. St. Parersburg. St. Parersburg. Saratov. Simbirsk. Simbirsk. Simbirsk. Tanboy Tyet. Tyet. Tyet. Tyet. Tyet. Charkov. Chersson. Estland.	Total	POLISH PROVINCES.	Warsaw Kalicah Kelitzka Lomschin Lublin Petrokov Plotzka Radom Suvalki Sedietz	Total	CAUCASUS. Baktusk Batum Dagestan Elesawebol Karsk Karsk Kutban Stavropol Tersk Triffs Black Sea coast. Erivan	_
¥\$			25 25 25 25 25 25 25 25 25 25 25 25 25 2		21338338288212	

RUSSIAN MORBIDITY REPORTS FOR THE YEAR 1909-Continued.

8	Number	of vacci- nations.	33.2 684 33.2 885 33.2 885 33.2 885 33.2 885 33.2 885 33.3 885 33.4 885 33.5 885 33.6 885 33.6 885 33.6 885 33.7 885 33.8 885 34.8 885 35.8 885 36.8 8	337,600	6, 439, 696
Miscellaneous.		Mental dis- eases.	168 243 243 243 533 533 54 77 71 71 71 71 71 71 71 71 71 71 71 71	299	<del>"</del>
Mis	Noninfectious diseases.	Trau- matic af- fections.	11, 438 21, 1069 22, 111 50, 972 2, 155 2, 155 2, 826 2, 826 2, 826 2, 826 2, 826 14, 980 14, 980 14, 980 14, 980 16, 985 16,	113,822	3,555,315 4,297,226 844,906 5,396,585 112,290
	Tra-		451 3,946 3,946 3,946 3,223 1,406 1,406 1,406 1,105 4,313 2,358 2,358 1,756 1,75	12,943	844,906
	Scables.		3, 484 18, 384 16, 351 12, 471 18 6, 651 1, 688 1, 689 1, 689 1, 539 1,	94, 159	4, 297, 226
	Malaria.		2, 635 6, 636 6, 636 6, 636 1, 100 1, 110 1, 311 1, 311 1, 32 1, 53 1, 5	206,597	3, 555, 315
	Gonor-		1,028 2,3776 6,475 6,475 7,476 2,966 3,867 27,172 27,172 1,558 1,558 1,1013 1,1013 1,1013 1,1013 1,1013	13,971	413, 126
	Soft chan-	į	287 908 2,9288 13 13 1,243 1,243 6 7,586 131 132 133 133 465 465 87 87 88 131 132 133 133 133 133 133 133 133 133	3,402	138,026
	Syphilis.		1,095 3,5392 3,5392 3,8573 3,8573 14,513 46,143 46,143 3,306 3,306 3,306	40,677	1, 199, 148
	Tuber-		2, 442 2, 444 44, 864 1, 384 1, 384 2, 215 207 2, 182 2, 182 2, 182 3, 872 2, 182 3, 873 1, 589 1, 5		659, 583
	Croup- ous pneu-	monia.	1, 230 2, 335 3, 345 1, 245 1, 245 1, 245 2, 335 2, 335 1, 470 1,	4,665	41,869 433,154
	Sourvy.		28 28 28 28 28 28 28 28 28 28 28 28 28 2	6,	41,869
	Acute articu- lar		4, 286 3, 424 3, 424 3, 424 3, 185 3, 185 1, 7, 742 1, 742 1, 980 1, 980 1, 980 1, 980 1, 980 1, 980 1, 980 1, 686 1, 686	15,236	705, 429
	Septi- cemia snd	pyemia	188 88 88 88 88 88 88 88 88 88 88 88 88	163	21,115
	Ery- stpelas.		276 540 641 881 881 881 882 828 838 847 847 84 868 868 868 868 868 868 868 868 868	3,502	208, 220
	Paro- titis.		1, 108 1, 029 1, 029 1, 029 1, 029 1, 13 1, 13 1	3,841	248,881
	Governments and Provinces.	!	### STREETHA.    Amur	Total	Total for Russian Em- pire

#### MOVEMENTS OF INFECTED VESSELS.

#### Cholera.

Bosnian.—At Odessa, Russia, November 18, 1912, from London via Constantinople, 2 cases, with 1 death.

#### Plague.

Bellailsa.—At Hamburg, Germany, September 2 to 5, 1912, from Rosario July 2, via Cape Verde Islands, 2 cases in crew. River Tyne, September 28, 1912, from Hamburg, 1 case in crew.

#### Yellow Fever.

Puebla.—At Laguna del Carmen, Mexico, September 14, 1912, from Vera Cruz and other Mexican ports, 1 case on board.

# CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX. Reports Received During Week Ended Feb. 7, 1913.

#### CHOLERA.

Places.	Date.	Cases.	Deaths.	Remarks.
Dutch East Indies:				
Borneo	Oct. 9-26	4	3	
Singkawang Java—	Oct. 8-Nov. 1	1	1	
Madioen	Oct. 6-Nov. 2	154	73	
Samarang	Oct. 18-Nov. 7	79	71	
Surabaya	Oct. 16-25	2	'î	
Turkey in Asia:	000. 10-20	_	-	
Adana-				
Adana	Nov. 24-Dec. 2		1	
	Nov. 24-Dec. 2		1	
Aleppo—	ـ ا	3	3	
Alexandretta	do	3		
	αο	3	2	
Angora—				
Angora	Nov. 24-Dec. 11	29	23	
Balikesir	Nov. 24-Dec. 2		1	
Beirut—				
Merdijioun	Dec. 3-11		15	
Tabariyeh	Dec. 13-22			Present.
Brusa	Nov. 24-Dec. 11	20	22	i
Castamoni	Nov. 24-Dec. 2	4	4	1
Hediaz—				
Medina	Dec. 3-11		6	
Mekka	ldo		3,007	
Ismidt	Nov. 24-Dec. 2		' i	· ·
Sinope		1	4	
Smyrna	Nov. 24-Dec. 2	ī	ī	
Tarsus	do	2	ī	
Zanzibar	Dec. 15-21	16	16	Chwaka district, Dec. 2-15, 10
Jennital	200.10			cases not previously reported.
	YELLOW	FEVER.		
Brazil:				
Bahia	Tom Od Plate 2	ا م	1	
Danis	Jan. 24-Feb. 3	4		•

### CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

#### Reports Received During Week Ended Feb. 7, 1913-Continued.

#### PLAGUE.

				<u> </u>
Places.	Date.	Cases.	Deaths.	Remarks.
Afghanistan: Tchehel-Bagdareh	Sept. 1-30			And vicinity 100 deaths daily Present to Oct. 29.
Dutch East Indies:		į		
Java— Kediri	Oct. 27-Nov. 16 do	50	30 48 118 7	
Egypt				Total Jan. 1-Dec. 31: Cases, 884; deaths, 441. Dec. 26-31: Cases, 9; deaths, 8.
Cairo Port Said Provinces—	Dec. 29	1	1	v, ucatus, o.
Menouf	Dec. 27-31 Dec. 27-29		7	
Manila	Nov. 24-Dec. 14	7	5	
	SMAI	LPOX.		
Canada:			1	
Montreal	Jan. 19-25	12 1		
OttawaQuebec	Jan. 22–28 Jan. 19–25			
St. Johns.	Jan. 19–20			
Chile:				•
Punta Arenas  Dutch East Indies: Java—	Nov. 1-30	1		
Samarang	Oct. 4-24	57	23	
Egypt: Cairo	Dec. 17-31		2	
Port Said	do		ĩ	
Suez	Dec. 28-Jan. 3	1	ī	
France: Marseille	Dec. 1-31		1	
Nantes	Jan. 5-18	2		
	do	10		
Germany: Hamburg	Jan. 10-16	1		
GibraltarIndia:	Jan 13-19	î		
Karachi	Dec. 15-21	1	· · · · · · · · · · · · · · · · · · ·	•
Mexico Portugal:	Dec. 22-Jan. 4	12	3	
Lisbon	Jan. 5-11	4		
Moscow	Dec. 15-28 Dec. 22-28	10	1 5	
Cadiz Turkey in Asia:	Dec. 1-31		3	
Beirut Turkey in Europe:	Dec. 29-Jan. 4 Dec. 29-Jan. 11		26	
Constantinople	1760. 29-Jan. 11	••••••	20	

## Reports Received from Dec. 27, 1912, to Jan. 31, 1913.

#### CHOLERA.

Places.	Date.	Cases.	Deaths.	Remarks.
Bulgaria: Eski Saghra Sofia China: Foochow			1	Isolated cases.

# CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued. Reports Received from Dec. 27, 1912, to Jan. 31, 1913—Continued.

CHOLERA—Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
Outch East Indies:				
Borneo-	Oct. 6	1	1	
PontrankSamarinda	Oct. 9			1
Java—	Oct. 9	•		•
Batavia	Nov. 9-23	32	21	One case among Europeans.
Madioen	Nov. 9-23 Sept. 15-Oct. 5	35		
Megalang	Oct. 7-12	. 9		
Pasoeroean Residency.	Sept. 20-26	2		
Samarang	July 19-Oct. 17	436		*
Sumatra—Jambi	Sept. 18-24	1		•
ndia:	Nov. 17-Dec. 28	117	81	
Bombay			1 170	
Calcutta Cochin	Oct. 19-Nov. 9	6		
Madras	Nov. 24-Dec. 28	20		
Negapatam				-
Rangoon	Nov. 1-30	2		1
ndo-China: Saigon	Aug. 20-Oct. 27			
apan	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	l	.	Total July 10-Dec. 20: Cases, 2,7
Aita Ken	Dec. 2	1		1
Chiba Ken	Nov. 23-Dec. 17	25		.}
Fukushima Ken	Dec. 5	1		.}
Hiardo Islands	Sept. 15-Dec. 1	30		
Hioga Ken	Nov. 27-Dec. 19	22		.1
Hiroshima Ken	Nov. 23			
Ibaraki Ken	Dec. 6	2		.
Iwate Ken	Dec. 16	1		
Kanagawa Ken				Total Nov. 23-Dec. 20: Cases,
Yokohama	Nov. 24-Dec. 8	18		Sept. 25-Dec. 7: 9 cases fro
	N 00 D 4		1	vessels.
Kochi Ken	No v. 28-Dec. 4	3		
Minami Tokaki gun	Sept. 15-Dec. 2	40		Nagasaki Ken and outlying
Nagasaki Ken Nagasaki city	Sept. 15-Dec. 2	10	4	lands Sept. 15-Dec. 2: Cas 188, deaths 134, including p vious reports.
	·		l	
Osaka Fu	Nov. 23-Dec. 3	14		
Saga Ken	do	5		
Sasebo	Sept. 15-Dec. 2 Dec. 3-20	7		
Shidzuoka Ken	Dec. 3-20	8		Matal Nam 2 02. Cases 49. death
Taiwan (Formosa)	•••••	· · · · · · · · ·		Total Nov. 3-23: Cases, 48; deatl
Tokushima Ken	Sept. 15-Dec. 1	85		Not previously reported.
Tokyo Fu	Nov. 23-Dec. 20			1100 providuory repersous
Tokyo				Oct. 2-Dec. 7: Cases, 273; and
102,0				vicinity, 342.
Wakamatsu Ken	Nov. 26	1		,
ussia: Odessa				Nov. 18-20: 1 case from s. Bosnian from Constantinop Confined in the quaranti
am:			1	barracks.
Rangkok	Oct. 13-Dec. 7		4	
BangkokSingapore.	Nov. 17-23	2	2	
irkey in Asia		<del>.</del> .		Total, Nov. 17-23: Cases, 16
•			1	deaths, 218.
Adana—Adana	Nov. 17-23	2	1	-
Aleppo—Alexandretta	do	2	1	
Angora	do	24	24	
Brusa	do	6	16	
Castomoni	ao	Z		
Diarbekir	do	8	2	
Hedjaz—	N 05 Dec 14	395	393	Among returning pilgrims.
Jedda	Nov. 17-92	395 111	172	remone to our ming bustime.
Mekka.,			114	
Ismidt	do	3	i	
MosulSmyrna	do	2	*	
rkey in Europe:				
Constantinople	Dec. 3-Jan 6	1,542	750	Total Nov. 5-Jan. 6: Cases 2,45
	_ 50. 0 *********************************	-,		deaths 1.208.
nzibar	Nov. 8-Dec. 15	115	114	From Mwera, Chwaka, and Moktoni. Chwaka district, Oct. 4 Dec. 28, 329 cases not include
888				in previous reports.  Nov. 18—20, 1 intal case on s.  Bosnian, en route from Constantinople to Odessa.

### CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

# Reports Received from Dec. 27, 1912, to Jan. 31, 1913—Continued.

#### YELLOW FEVER.

Places.	Date.	Cases.	Deaths.	Remarks.
Ecuador: Bucey. Duran. Guayaquil. Milagro. Naranjito. Senegal:	Nov. 1-30dodododododododo	1 2 12 2 2	1 1 6 2	
Dakar. Venesuela: Caracas.	Dec. 7	7	1	Present.  In September 2 deaths and in October 1 death not previously reported. In December no case and no death.
	PLA	GUE.		
Brazil:	N. 10.00			
Pernambuco	Nov. 16-30 Nov. 3-Jan. 2	9	2 4	
Kiambu Kisumu Mombasa Nairobi	Nov. 16-Oct. 21 do Oct. 1-31 Nov. 16-Dec. 8	6 12 2	12 1	Free Nov. 18.
Chile: Taltal	Oct. 22-28	3		Present.
Shanghai	Nov. 18-Dec. 15		2	Present along the railway, be- tween Harbin and Chang-Chun. Dec. 18, present in vicinity of the French settlement.
Dutch East Indies: Java— Kediri Madloen Pasoeroean Residency Surabaya	do	75 16 132 3	73 16 129 3	
Ecuador:	Nov. 1-30	3 138	1 52	Total Nov. 23-Dec. 25: Cases, 22; deaths, 7. Jan. 1-Dec. 25: Cases, 876; deaths, 433.
Behera. Charkieh. Garbieh. Girgeh. Menouf. Minieh.	Nov. 22-Dec. 19 Nov. 29-Dec. 12 Nov. 23-Dec. 17 Dec. 21-25 Oct. 1-Dec. 21	2 3 3 1 7	1 2	Cases, SIO, Concess, SOC.
India: Bombay Calcutta Karachi	Nov. 17-Dec. 28 Nov. 9-Dec. 14 Nov. 19-23	6 31 2	28 29 2	
Rangoon	•••••	68	68	Total Oct. 27-Nov. 30 Cases, 12, 333; deaths, 9,908.
Delhi. Bombay. Madras. Bengal. Bihar and Orissa. United Provinces. Punjab. Burma. Central Provinces. Mysore. Hyderabad. Central India.	Oct. 27-Nov. 30dododododododo	31 4,475 733 30 473 2,270 495 34 242	3,356 520 30 367 1,857 371 34 193	,
Mysore. Hyderabad	do	975 613 57 1,905 55 96	701 523 47 1,895 35 60	Among the military.
New Caledonia: Numea	Oct. 29	2		Sept. 17-Oct. 17, 8 cases, with 5 deaths.

# ${\bf CHOLERA,\ YELLOW\ FEVER,\ PLAGUE,\ AND\ SMALLPOX-Continued}.$

### Reports Received from Dec. 27, 1912, to Jan. 31, 1913—Continued.

#### PLAGUE-Continued.

Date.	Cases.	Deaths.	Remarks.
Nov. 17-Dec. 7	7	4	
Sept. 1-7do			Present. Do.
Nov. 10-16	5	4	
Oct. 18-28	3	3	Near Nerchinsk.
	Nov. 17-Dec. 7 Sept. 1-7do Nov. 10-16	Nov. 17-Dec. 7 7 Sept. 1-7do	Nov. 17-Dec. 7 7 4 Sept. 1-7

#### SMALLPOX.

			1	1
Abyssinia: Adis Ababa	Nov. 24-Dec. 21		ļ	Present.
Departments—	1	i		
Algiers	Oct. 1-31	11		
Constantine	do	ii		
Oran	do	118		1
	ao	110		i
Austria-Hungary: Galicia	N 10 Dec 5	3		1
	Nov. 10-Dec. 7			i
Trieste	Dec. 8-21	4		
Brazil:	1 _	1 -		
Para	do	2		
Pernambuco	Nov. 1-30		65	
Rio de Janeiro	Nov. 3-Jan. 2	17	5	
British East Africa: Mombasa	Dec. 1-21	5		
Canada:				
Ontario—	l	1	1	
Ottawa	Jan. 4-18	13		
Toronto	Dec. 1-21	5		
	Dec. 1-21			
Quebec— Montreal	Dec. 15-Jan. 18	30	1	
	do	20		
Quebec			• • • • • • • • •	
St. Johns	Jan. 12-18	4	• • • • • • • • • •	0.4 00 0 1
Chile: Punta Arenas	Oct. 31	2		Oct. 31, 1 case in vicinity.
China:		l		
Amoy	Jan. 16			Present.
Chungking	Nov. 3-16			Do.
Hongkong	Nov. 24-Dec. 14	4	2	·
Nanking	Dec. 7	l		Do.
Shanghai	Nov. 18-Dec. 22	13	53	Deaths among natives.
Tientsin	Nov. 17-Dec. 14		2	
Dutch East Indies:	1		_	
Java –	İ			
Batavia	Nov. 9-Dec. 7	14	1	
	10V. 3-Dec. 7	**	•	
Egypt:	Dec. 9-31	2	i	
Alexandria	Nov. 12-Dec. 16	7	i	
Cairo		í		
Port Said	Dec. 3-9	] 1		
France:	37 4 00	i		
Marseille	Nov. 1-30	<u>-</u> -	1	
Paris	Dec. 1-Jan. 4	7		
Germany				Total: Nov. 24-30, 5 cases no
•		1		included in report, page 2231 vol. xxvii; Dec. 1-Jan. 11, 1
		ļ	• .	vol. xxvii; Dec. 1-Jan. 11, 1
		l		cases.
Gibraltar	Dec. 9-15	1		
Great Britain: Liverpool	Jan. 1-4	ī		
India:		_		
Bombay	Nov. 17-Dec. 28	11	4	
Calcutta	Dec. 1-14		11	
Karachi	Dec. 1-7	·····i	**	
		4	3	
Madras	Dec. 1-28		3	
Rangoon	Oct. 1-Nov. 30	11		
Indo-China: Saigon	Aug. 20-Oct. 20	2	2	
Italy: Palermo	Dec. 15-21	2		m. 4.1 T 1 O.4 O1. C 10
Japan				Total Jan. 1-Oct. 31: Cases 13,
-	l i	i	1	with 1 death.

# $\begin{cal} \textbf{CHOLERA}, \textbf{YELLOW} \textbf{ FEVER}, \textbf{ PLAGUE, AND SMALLPOX} \end{cal} \label{eq:cholera} \textbf{Continued}.$

### Reports Received from Dec. 27, 1912, to Jan. 31, 1913—Continued.

### SMALLPOX-Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
Mexico:				
	Dec. 9-Jan. 12	f	1 .	l
Aguascalientes			4	
Chihuahua	Dec. 9-Jan. 5		2	1
Durango	Dec. 1-31		15	
Mazatlan	Jan. 1-7	2		
Mexico	Nov. 17-Dec. 7		12	
Salina Cruz	Nov. 17-23	1		
San Luis Potosi	Sept. 15-21	1	1	'
Netherlands: Rotterdam	Dec. 22-28	l	1	
Peru:	1	1		
Callao	Sept. 1-14	l	1	Present.
Lima	do	1		Do.
Mollendo	Nov. 24-Dec. 7	5	i	
Salaverry	Dec. 4-11	ľ		
Portugal: Lisbon	Dec. 1-28	21	l	
Roumania	Dec. 1-20	1 21		Total Oct. 1-31: Cases
Roumania	• • • • • • • • • • • • • • • • • • • •			10tal Oct. 1-01. C8565
	Dec 10 Tem 4	۱ .		
Libau	Dec. 16-Jan. 4	2		
Moscow	Dec. 8-14	1	1	
Odessa	Nov. 17-Dec. 14	3	<u>-</u> -	
St. Petersburg	Nov. 24-Dec. 21	86	5	
Warsaw	Sept. 22-Oct. 5	5	<b></b>	
Bervia: Belgrade	Dec. 22-28	2		
Biam: Bangkok	Nov. 10-Dec. 7		3	
liberia: Vladivostok	Oct. 28-Dec. 28	4	3	
pain:		_		
Almeria	Dec. 1-31		40	
Barcelona	Dec. 1-28		64	•
Cadiz	Nov. 1-30.		4	
Madrid	Nov. 1-Dec. 31		34	
Seville.	Dec. 1-31	• • • • • • • • • • • • • • • • • • • •	27	
	Nov. 14-Jan. 4	28		
Valencia				
traits Settlements: Singapore.	Nov. 24-30	1	1	
weden: Stockholm	Oct. 8-21	3		•
witzerland:	1	i	ł	
Cantons		. !	i	
Aargau	Dec. 15-21	1		
Basel	Nov. 14-Dec. 21	8		
Grisons	Dec. 1-28	9		
urkey in Asia: Beirut	Dec. 8-14	1	2	
urkey in Europe: Constan-	Dec. 1-28		43	
tinople.			- 1	
anzibar	Nov. 8-14		1	
######################################	***************************************		- 1	

# SANITARY LEGISLATION.

# STATE LAWS AND REGULATIONS PERTAINING TO PUBLIC HEALTH.

#### IOWA.

Communicable Diseases—Quarantine and Disinfection (Regulations State Board of Health Adopted July 21, 1911).

#### CHAPTER I.

#### QUARANTINE REGULATIONS.

RULE I. The following diseases are subject to quarantine: Scarlet fever (including scarletina and scarlet rash), diphtheria (including membranous croup), smallpox, epidemic cerebrospinal meningitis, anterior poliomyelitis, cholera, leprosy, and bubonic plague.

Rule II. Quarantine shall be established by serving a written notice signed by the mayor of the city or town, or the clerk of the township, upon the head of the family or occupants of the premises and by posting in a conspicuous place upon each building, hall, lodging room, or place wherein exists or is suspected to exist a communicable disease, the following described sign: A yellow card not less than 12 inches square, having printed thereon in large letters the word "Quarantine," followed by the name of the disease and the words: "Notice! No person shall be permitted to enter or leave these premises except as provided by the rules and regulations of the State board of health." (Signed) ——————, Mayor or Township Clerk.

RULE III. All cases of diseases listed in Rule I shall be immediately reported to the mayor of the city or town, or clerk of the township, by the physician, if any be in attendance, otherwise by the householder of the premises wherein such disease exists.

In every case a written notice shall also be sent within 24 hours to the mayor of the city or town or to the township clerk.

RULE IV. SECTION 1. It shall be the duty of the mayor or township clerk, upon receiving notice of the existence of any case of scarlet fever (including scarletina or scarlet rash), diphtheria (including membranous croup), smallpox, epidemic cerebrospinal meningitis, anterior poliomyelitis, cholera, leprosy, or bubonic plague, to forthwith quarantine the premises as provided for in rule 2 of this chapter, and to take such other measures as may be necessary and proper for the restriction and suppression of such disease.

SEC. 2. It shall be the duty of the mayor of every city or town and the clerk of every township to report to the secretary of the State board of health, within 24 hours after being notified thereof, every case of quarantinable disease reported to him; and upon receiving notice of the subsidence of such disease to likewise immediately report that fact, together with the mode of termination, whether by death or recovery. All reports provided for in this regulation shall be made upon postal cards in accordance with the following forms adopted by the State board of health.

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### REPORT OF QUARANTINABLE DISEASES.

#### DEPARTMENT OF PUBLIC HEALTH.

County	•••		Date		19
To the Secretary, State The following cases of			стн: leases were reported to th	is office t	to-day:
For quarantine.	Number.	Total for month to date.	For quarantine.	Number.	Total for month to date.
Scarlet Fever			Leprosy Bubonic plague		
Total			Total		
•••••	M.] Health			Mayor	 -C <b>ler</b> k.
City or township o	f				
	TERM	IINATION	OF QUARANTINE.		
	DEPAR	TMENT C	OF PUBLIC HEALTH.		
County	• • •		Date		10
To the Secretary, Stati			LTH:		
			es, previously reported t	o you fi	rom this
office, have terminated as					
				Recovery.	Deaths.
Cerebrospinal meningitis Anterior poliomyelitis Cholera					
Total					
The premises infected b	y these d	iseases h	ave been properly disinfed	ted and	eleased.
					Clerk .
				M.] Health	
City or township	• • • • • • • • • • • • • • • • • • •				
	must furi	nish the f	foregoing cards and compl	y with I	Rule IV,
section 2.					

Sec. 3. The mayor of each city or town, and the clerk of each township shall designate and detail certain peace officers as sanitary police.

- Sec. 4. Sanitary police officers shall visit all quarantined premises within their jurisdiction at least once in every 24 hours to see that quarantine is properly observed, and shall make daily report thereof to the mayor or clerk of the township.
- RULE V. If any person shall willfully or maliciously, or without written authority remove or deface or cause to be removed or defaced any quarantine sign or signal of danger, officially posted upon the quarantined premises, as provided by the regulations of the State board of health, he shall be deemed to have violated the regulations of the State board of health, and shall be prosecuted accordingly.

Rule VI.—Section 1. Upon the termination of any of the diseases named in Rule I, the attending physician or health officer shall report the fact in writing to the mayor or township clerk, who shall order the infected persons and infected premises, together with all persons, furniture, bedding, clothing and all other articles therein contained, to be disinfected according to the regulations of the State board of health and under the direction of the local board of health, which shall direct the attending physician to superintend or perform the work. In case there be no attending physician, or in case the attending physician refuses to perform the work or fails to perform it according to the regulations of the State board of health, it shall be the duty of the local board of health to provide some other suitable person to perform such work.

- Sec. 2. Any undertaker or person in charge of the funeral of any person, dying from tuberculosis, shall within 48 hours after the death of such person report to the mayor of the city or town, or to the township clerk, the name and residence of the deceased person, together with the cause of death. Upon receipt of the notice as herein provided, the mayor of the city or town or clerk of the township shall cause said premises to be disinfected in accordance with the regulations of the State board of health, and the law as enacted by the thirty-fourth general assembly.
- Sec. 3. All bills and expenses incurred in carrying out the rules and regulations of the State board of health, and for all fumigating and disinfecting, must be provided for according to chapter 156, acts of the thirty-third general assembly and as amended by the thirty-fourth general assembly.

RULE VII. Whenever any premises are quarantined, special attention must be given to all pet animals kept thereon. Cats and dogs shall be excluded from the house and prevented from running at large. Before the quarantine is raised all such animals shall be thoroughly washed in a disinfecting solution. Special precautions must be taken to destroy all mice and rats. When flies are present, all doors and windows shall be securely screened and fresh fly paper placed in each room daily.

RULE VIII. Quarantine shall be released only upon order of the mayor or township clerk after receipt of a written report from the attending physician or health officer stating that the disease has terminated and that the premises and all infected persons have been properly disinfected in strict accordance with Rule VI, Chapter I. This report shall state the number of persons on the premises, the number who have suffered from the disease, their names, ages, when the disease appeared in each case, and how it terminated.

When all regulations pertaining to quarantine and disinfection have been complied with the quarantine shall be released.

RULE IX. No letters or other articles coming from quarantined premises shall under any circumstances be placed in any post office, letter box, or rural delivery. If on account of carelessness or neglect any such infected article shall have been placed in a post office, letter box, or rural delivery, all such letters or articles, together with such other articles as have come in contact therewith, shall be detained and immediately disinfected by the health officer, without unnecessary delay or removal from the custody of the postmaster. This rule is in accordance with the United States postal laws.

RULE X. No person except the attending physician shall be permitted to enter or leave any premises while the same are under quarantine, except as specifically

provided for by the regulations of the State board of health and in strict accordance therewith. The secretary or members of the State board of health may enter any premises under quarantine whenever, in their opinion, it is necessary for purposes of investigation or to enforce the regulations of the State board of health.

#### CHAPTER II.

#### SPECIAL REGULATIONS.

- RULE I. Scarlet fever.—SECTION 1. Quarantine shall be maintained in scarlet fever until the complete recovery of the patient, including complete desquamation, and this shall be certified to in writing by the attending physician or health officer.
- SEC. 2. In case the disease terminates either by death or recovery, quarantine may be released unless there are other children on the premises who have not had the disease, in which case the quarantine shall be maintained for 10 days after the date of death or recovery.
- SEC. 3. Quarantine shall not be released in any case until the infected persons and infected premises have been properly disinfected according to Rule VI, Chapter I.
- Rule II. Diphtheria.—Section 1. The period of quarantine for diphtheria shall be determined by release cultures whenever possible, and the following rules shall be rigidly observed:
- 1. Each culture for release shall be taken by the attending physician from both nose and throat of the patient.
- 2. No culture for release shall be taken until 5 days after the disappearance of all membrane or inflammation of the nose or throat.
- 3. Second and subsequent cultures shall not be taken within 24 hours of the preceding culture.
- 4. All examinations of cultures for release shall be made by a bacteriologist appointed by the director of the State bacteriological laboratory.
- 5. Quarantine shall not be released until two consecutive negative cultures are reported by the bacteriologist to the mayor or township clerk.
- 6. The local health officer may in any case take cultures and send them to the bacteriological laboratory for verification.
- Sec. 2. In case the culture method for release is not used, quarantine shall be maintained for 28 days from the beginning of the last case on the premises, provided, however, that antitoxin was administered within the first 24 hours from the initial symptoms and the patient has made a complete recovery, and these facts are certified to in writing by the attending physician or health officer.
- Sec. 3. If the disease terminates by death, quarantine may be released unless there are other children on the premises, in which case quarantine must be maintained for 10 days longer. In case the surviving children have been recently protected by immunizing doses of antitoxin and one negative culture has been made from the nose and throat of each, in accordance with the rules for release cultures, the quarantine may be released immediately.
- Sec. 4. Quarantine shall not be released in any case until the infected persons and infected premises have been properly disinfected according to Rule VI, Chapter I.
- RULE III. Smallpox.—Section 1. Quarantine shall be maintained in smallpox until the complete recovery of the patient and until after complete desquamation, as certified to in writing by the attending physician or health officer.
- Sec. 2. In case of the termination of the disease by death, quarantine may be released unless there are persons on the premises who are unprotected from smallpox, either by vaccination or having previously had smallpox, in which case the quarantine shall be continued for 14 days longer.

- Sec. 3. Any person who has been vaccinated within three years, or who has had smallpox, may be released from quarantine upon proper disinfection of his person and clothing.
- Sec. 4. Quarantine shall not be released in any case until the infected persons and infected premises have been properly disinfected according to Rule VI, Chapter I.
- RULE IV.— Vaccination.—Section 1. Vaccination for smallpox is the introduction by scarification of the bovine vaccine virus through the skin.
- SEC. 2. In addition the Iowa courts have held that the administration by mouth of a proper preparation of variolinum constitutes a legal method of vaccination.
- Rule V. Meningitis.—Section 1. In case of epidemic cerebrospinal meningitis, quarantine shall be maintained until the recovery of the patient from the acute symptoms, and this shall be certified to in writing by the attending physician or health officer.
- SEC. 2. In case the disease terminates by death, quarantine may be released after 10 days from date of death.
- SEC. 3. Quarantine shall not be released in any case until the infected persons and infected premises have been properly disinfected according to Rule VI, Chapter I.
- Rule VI. Infantile paralysis.—Section 1. Quarantine shall be maintained in anterior poliomyelitis (infantile paralysis or epidemic motor paralysis) for a period of 21 days from the beginning of the disease.
- SEC. 2. Disinfection of urine, feces, throat, and nasal discharges shall be required in accordance with chapter 3 of the rules and regulations for disinfection.
- SEC. 3. When the disease terminates either by death or recovery, quarantine may be released unless there are other persons on the premises who have not had the disease, in which case the quarantine shall be maintained for 10 days after the date of death or recovery.
- SEC. 4. Quarantine shall not be released in any case until the infected persons and infected premises have been properly disinfected according to Rule VI, Chapter I.
- Rule VII. The breadwinner of the family quarantined for scarlet fever, diphtheria, smallpox, or anterior poliomyelitis may be permitted to pursue his usual avocation in the discretion of the local board of health, but no person from the infected premises shall be permitted to attend any public gathering or school in any capacity or to travel upon any public conveyance. To obtain permission from the local board of health to leave the premises, the breadwinner shall agree not to enter the sick room, and he shall change his clothing upon leaving and entering the infected house, and shall wash his face and hands in a disinfecting solution.
- Rule VIII. Cholera.—Section 1. Quarantine shall be maintained in case of cholera until the complete recovery of the infected person, and this shall be certified to in writing by the attending physician or health officer.
- SEC. 2. In case the disease terminates by death, quarantine shall be maintained for 14 days from date of death.
- SEC. 3. Quarantine shall not be released in any case until the infected persons and infected premises have been properly disinfected according to Rule VI, Chapter I.
- Rule IX. Leprosy.—Section 1. All persons affected with leprosy shall be continuously confined upon their home premises. It shall be the duty of the health officer of the local board of health to report to the secretary of the State board of health the name, age, social condition, and residence of all persons affected with this disease within the community over which he has jurisdiction, and the local board shall keep a record of the particulars required herein.
- RULE X. Bubonic plague.—Section 1. Quarantine shall be maintained in bubonic plague until complete recovery of the infected person or persons.
- SEC. 2. In case the disease terminates by death, quarantine shall be maintained for 14 days from date of death.

- Sec. 3. Quarantine shall not be released in any case until the infected persons and infected premises have been properly disinfected according to Rule VI, Chapter I. In addition all pet animals and, in so far as possible, all rats and mice shall be destroyed.
- Rule XI. Dairy products.—Section 1. The sale of milk or dairy products from any quarantined premises is prohibited.
- SEC. 2. However, if the dairy and barns are situated a safe distance from the quarantined dwelling, and if no person, utensil, or water from the infected premises comes in contact with such dairy products, the local board of health shall satisfy themselves of these facts and then may allow the said products to leave the premises.
- SEC. 3. But such products as have been exposed to infection shall not be sold or allowed to leave the premises.
- Rule XII. Release of healthy persons from quarantine.—Any adult living on premises under quarantine or any child who has previously had the disease for which the quarantine has been established may be released from quarantine, after proper disinfection, by written order of the local board of health, but persons so released shall not reenter the premises until the quarantine is released. (In quarantine for smallpox, no unvaccinated person shall be released before the end of the quarantine period.)
- RULE XIII. All persons suffering from any disease subject to quarantine or residing upon premises infected with any such disease, shall be excluded from the public schools. The superintendent, teacher, or other official in charge of any school shall be held personally responsible for the enforcement of this regulation, and under no circumstances shall such superintendent, teacher, or official allow any person so excluded to reenter such school, except upon the presentation of a written permit, showing that such person has been properly disinfected and regularly released from quarantine. All such permits must be signed by the mayor or township clerk, and by the health officer of the local board of health. This regulation shall also apply to academies, seminaries, and colleges.

RULE XIV. Section 1. No person suffering from tuberculosis shall be permitted to attend any public or private school as a pupil, neither shall any such person be employed in any school in any capacity.

- Sec. 2. Whenever any person shall have reason to believe that this rule is being violated he shall so inform the mayor or township clerk, and it shall then be the duty of the local board of health to investigate the case and exclude said pupil or employee from school unless the board is fully satisfied that said pupil or employee is not tubercular.
- Sec. 3. The local board of health shall cause the health officer to procure from the suspected individual a sample of sputum or other discharge and shall forward this to the State bacteriological laboratory for examination, and shall use such other means as are usual and customary to determine the presence or absence of tuberculosis.
- Sec. 4. All examinations made by or for the local board of health shall be free of expense to the patient.

# MUNICIPAL ORDINANCES, RULES, AND REGULATIONS PERTAINING TO PUBLIC HEALTH.

#### ALEXANDRIA, VA.

Health Officer, Deputy Health Officer, and Board of Health—Duties of. (Ordinance adopted July 23, 1912.)

SECTION 1. There shall be in September, 1912, and every two years thereafter, elected by the city council, a health officer, whose term of office shall begin the first day of the following October and who shall be a practicing physician. He shall inspect the city twice a month from April to September, and once a month for the balance of the year, visiting all localities suspected of being unhealthy or exposed to disease. He shall suggest to the board of health such measures as he shall think fit to preserve the health of the city and especially to prevent the introduction and spread of infectious and contagious diseases, and to prevent or regulate the pursuit of callings prejudicial to the public health or comfort. He shall also consider and report upon all such matters as may be referred to him by the board of health, and make monthly reports to the said board of health of his proceedings. He shall receive for his services as such health officer the sum of \$600 per annum, payable in monthly installments on warrants drawn by the auditor, which shall be in lieu of all fees, including fees as registrar of vital statistics.

- SEC. 2. The health officer, immediately after his election, or in the interim between the passage of this ordinance and his election, shall appoint a deputy to be known as deputy health officer, who is hereby vested with police authority in the performance of his duties. The duties of the deputy health officer shall be to inspect dairies, live stock, milk, slaughterhouses, meat, fish, fowls, and such other articles of food as the board of health may direct. He is hereby authorized to apply the tuberculin test to live stock in accordance with State and Federal regulations, and shall receive a fee from owners of said stock of not over 50 cents per head, the collection of said fee being permissible in connection with his salary, hereinafter provided, this, however, being applicable only to cases where tests are made to determine the quality of the milk or condition of herd upon owner's application on form prescribed and provided by the board of health. The board of health is hereby authorized to accept the certificate of any properly licensed veterinarian as to the condition of dairies, herd, and cattle when approved by the health officer.
- SEC. 3. The deputy health officer shall be a qualified veterinarian, and the health officer shall ascertain to his positive knowledge that the applicant for office of deputy is qualified to perform the duties herein prescribed and submit the name of the appointee to the city council, which shall, as soon as consistent, confirm or nonconfirm the appointment.
- SEC. 4. The deputy health officer, in addition to his other duties, shall attend horses of the fire department and all other horses the property of the city, and perform all veterinarian duties in connection therewith and shall receive for his services the sum of \$400 per year, payable in monthly installments on warrant drawn by the auditor, which shall be in lieu of all fees excepting those hereinbefore described.
- SEC. 5. The deputy health officer shall report his findings and recommendations to the health officer, who shall be governed accordingly.
- SEC. 6. The board of health is hereby empowered to designate an acting deputy health officer when circumstances may warrant, said designation to be effective for a reasonable time or within the judgment of the city council.
- SEC. 7. The health officer is hereby vested with police authority in the performance of his duties. He shall require deleterious matter, wherever found, to be removed by the occupant of the premises or by the owner if the premises are unoccupied, and con-

veyed beyond the limits of the city. He may require yards and premises and the street gutters in front of any premises, when he thinks it important to the health of the neighborhood, to be cleaned and limed by the occupant or owner of such premises. Any person failing, after one day's notice, to obey the orders of the health officer, given pursuant to the provisions of this section, shall be fined not less than \$1 nor more than \$20, unless it appears that such person was unable to comply with the orders of the health officer, and each day's violation shall be deemed a separate offense.

SEC. 8. Whenever in the opinion of the board of health it shall be necessary for the public health, to clean, ditch, or lime any particular locality, public alley, or street areas, or to ditch, clean, or lime any common drain across private lots or in alleys, the use of and right of way over which is for the benefit of the real estate abutting thereon, or to remove or abate any nuisance the owner or causer of which can not be apprehended, said board of health may, through the health officer, instruct the city engineer to have the same done.

The city engineer shall report the cost of such work by pay roll on voucher to the auditor as work done by order of the board of health on streets, private lots, or alleys, or nuisances, as the case may be, and the auditor is hereby authorized to issue warrants for payment of same from such appropriations as may be made under section 2, of Chapter XIX of the Code of 1874, as hereinafter amended and reenacted.

SEC. 9. There shall be elected at the same time and in the same manner as the health officer, a physician to the poor, at the salary of \$300 per annum, payable in monthly installments, upon warrants drawn by the auditor, who shall attend the indigent sick of the city and sick of the almshouse, and who shall perform all the duties of the present physicians to the poor.

SEC. 10. It shall be the duty of the members of the police force to take note of and report any and all infractions of the health laws and, where called upon by the health officer, the deputy health officer, or the board of health, to assist in enforcing the same.

#### BELLEVUE, OHIO.

# Garbage—Care and Disposal of. (Regulation Board of Health Adopted March 21, 1912.)

Section 1. It shall be the duty of every resident householder, tenant, hotel keeper, boarding-house keeper, retail dealer, and all parties or persons occupying dwellings within the city of Bellevue, Ohio, to provide or cause to be provided, and at all times to keep or cause to be kept or provided, portable vessels or tanks for holding garbage and offal; said vessels or tanks to be perfectly water-tight, and so kept with handles on the outside and provided with a tightly fitting cover, which cover shall not be removed except when absolutely necessary. Said vessels or tanks shall be kept or placed in the rear of the house or in basement areas or passageways most accessible to be collected, and never upon the street, alley, sidewalk, or other public place, and shall be of a capacity of not more than 2 bushels. All such vessels or tanks shall be promptly delivered to the collector when called for, and shall be returned by him to said place or places without unnecessary delay; and no person except for such purpose authorized shall in any manner interfere with said vessels or tanks or the contents thereof.

SEC. 2. The words garbage and offal as used in this ordinance shall be held to include every refuse accumulation of animal, fruit or vegetable matter, or otherwise that attends the preparation, use, cooking, dealing in, or storage of meats and fowls, fruits, or vegetables; and it shall be unlawful for any person to place in said vessels or tanks any ashes, refuse, water, waste, or other material whatsoever.

#### CHELSEA, MASS.

# Domestic Animals—Not To Be Kept Without License. (Rule, Board of Health, Adopted Oct. 29, 1912.)

RULE 86 A. No person shall allow to be kept in any building, or on the premises of which he may be the owner, lessee, tenant, or occupant, any cow or cows, horses, hens, or swine without a license being granted for same by the board of health.

#### LOS ANGELES, CAL.

#### Midwifery-Practice of. (Ordinance No. 2503, Adopted May 7, 1912.)

SEC. 1. It shall be unlawful for any person to practice midwifery or obstetrics or to act as accoucheur, or to attend or assist or advise at the birth of any child, without first applying for and receiving a permit in writing so to do from the health commissioner.

Any person desiring such a permit shall make and file with the health department of the city of Los Angeles an application therefor in writing. The name, age, sex, residence, place of business, and occupation of the applicant shall be stated in such application and the previous experience of the applicant shall be stated fully therein. The applicant shall state in such application where he or she shall have resided for a period of five years next preceding the date of filing such application. Such application shall be signed by the applicant and shall be sworn to before an officer authorized to administer oaths.

Nothing herein contained shall be construed to require any person to obtain a permit under the provisions of this ordinance if such person has, prior to the adoption of this ordinance, obtained a permit under the provisions of ordinance No. 20606 (new series), and such permit has not been revoked, and a new permit is not specifically required to be obtained under the provisions of this ordinance.

Sec. 2. The health commissioner shall make an investigation as to the experience and history of each person applying for such a permit, and if it shall be found that any such person has committed any criminal or immoral act, or has been guilty of any crime or of any criminal or immoral practice, the application of such person shall be denied by the said health commissioner.

If the said health commissioner shall not find that such applicant has committed any criminal or immoral act, or has been guilty of any crime or of any criminal or immoral practice, then the said health commissioner shall make a careful and thorough examination of the qualifications possessed by such applicant to practice midwifery or obstetrics, or to act as accoucheur, or to attend or assist or advise at the birth of children. Such examination may be written or oral, or both, in the discretion of the health commissioner.

- SEC. 3. If the said health commissioner shall determine that such application should be granted, a permit, in writing, shall be issued to the person applying therefor.
- SEC. 4. If the holder of any such permit shall commit any criminal or immoral act, or shall be guilty of any crime or of any criminal or immoral practice, the health commissioner shall revoke the permit of such person.
- SEC. 5. No such permit shall be revoked until a hearing shall have been had by the health commissioner, notice of which hearing shall be given in writing and served at least three days prior to the date of hearing upon the holder of such permit. Such notice shall state the ground of complaint against the holder of such permit and shall also state the time when and place where such hearing will be had. Such notice shall be served upon the holder of such permit by delivering the same to such person, or to any person of suitable age and discretion in charge of or employed in the place of business of such person; or if such person has no place of business, then at his or her place of residence; or by leaving such notice at the place of residence of such person, with

some person of suitable age and discretion. If the holder of such permit can not be found and service of such notice can not be made upon him or her in the manner herein provided, then a copy of such notice shall be mailed, postage fully prepaid, addressed to such holder of such permit at such place of business or residence at least three days prior to the date of such hearing.

- SEC. 6. The provisions of this ordinance shall not apply to any physician licensed as such by the State of California in the manner required by law or to any person assisting at the birth of any child under the direction and in the presence of a physician so licensed.
- SEC. 7. Each person filing an application for a permit pursuant to the provisions of this ordinance shall deposit the sum of \$5 with the health department at the time of filing such application. If such application is granted, the said sum shall be retained by the city. If the application is not granted, one-half of such sum shall be returned to the applicant, and the remainder shall be retained by the city for the purpose of reimbursing the city for the expense of making the investigation required by this ordinance and the holding of the examination, if an examination is held.
- SEC. 8. Each such permit shall expire at the end of one year from and after the date thereof, unless sooner revoked. Such permit may be renewed by the health commissioner from year to year, without examination, upon the payment of a fee of \$1. Each such renewal shall expire at the end of one year from and after the date thereof, unless sooner revoked.
- SEC. 9. All moneys received pursuant to the provisions of this ordinance shall be at once deposited in the city treasury, and all moneys returned to any applicant shall be upon a demand or demands filed, approved, and audited in the same manner as other demands against the city are filed, approved, and audited.
- SEC. 10. That any person violating any of the provisions of this ordinance shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punishable by a fine of not less than \$5 nor more than \$500, or by imprisonment in the city jail for a period of not more than six months, or by both such fine and imprisonment.
- Sec. 11. That ordinance No. 20606 (new series), approved July 19, 1910, be, and the same is hereby, repealed: *Provided*, That any such repeal shall not affect or prevent the prosecution and punishment of any person, firm, or corporation for any act done or permitted in violation of any ordinance which may be repealed by this ordinance, and shall not affect any prosecution or action which may be pending in any court for the violation of any ordinance repealed by this ordinance.

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